GRAPHICAL SECTION
FOR RFI TEST REPORT SERIAL NO:
RFI/EMCB1/RP44012JD09A

Test Of: Brain Boxes Ltd.
BL-510

To: F.C.C. Part 15 Subpart C: 2001
(Intentional Radiators)
Section 15.247

Radio Frequency Investigation Ltd, Ewhurst Park, Ramsdell,
Basingstoke, Hampshire, RG26 5RQ, ENGLAND.
Tel: +44 (0) 1256 851193 Fax: +44 (0) 1256 851192

Registered in England, No. 211 7901.
Registered Office: Ewhurst Park, Ramsdell,
Basingstoke, Hampshire RG26 5RQ

UKAS TESTING
0644

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

Graphical Test Results

Graph Reference Number	Title
GPH\44012JD09\002	Scan of conducted emissions, receive mode
GPH\44012JD09\003	Scan of conducted emissions, hopping mode
GPH\44012JD09\004	Scan of conducted emissions, bottom channel
GPH\44012JD09\005	Scan of conducted emissions, middle channel
GPH\44012JD09\006	Scan of conducted emissions, top channel
GPH\44012JD09\007	Scan of conducted emissions, receive mode (laptop supply test point)
GPH\44012JD09\008	Scan of conducted emissions, hopping mode (laptop supply test point)
GPH\44012JD09\009	Scan of conducted emissions, bottom channel (laptop supply test point)
GPH\44012JD09\011	Scan of conducted emissions, top channel (laptop supply test point)
GPH\44012JD09\012	Scan of conducted emissions, middle channel (laptop supply test point)
GPH\44012JD09\023	Scan of conducted emissions, receive mode (EUT power lead)
GPH\44012JD09\024	Scan of conducted emissions, bottom channel (EUT power lead)
GPH\44012JD09\025	Scan of conducted emissions, middle channel (EUT power lead)
GPH\44012JD09\026	Scan of conducted emissions, top channel (EUT power lead)
GPH\44012JD09\027	Scan of conducted emissions, hopping mode (EUT power lead)
GPH\44012JD09\028	Scan of conducted emissions, receive mode (laptop power lead)
GPH\44012JD09\029	Scan of conducted emissions, bottom channel (laptop power lead)
GPH\44012JD09\030	Scan of conducted emissions, middle channel (laptop power lead)
GPH\44012JD09\031	Scan of conducted emissions, top channel (laptop power lead)
GPH\44012JD09\032	Scan of conducted emissions, hopping mode (laptop power lead)

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

Graphical Test Results (continued)

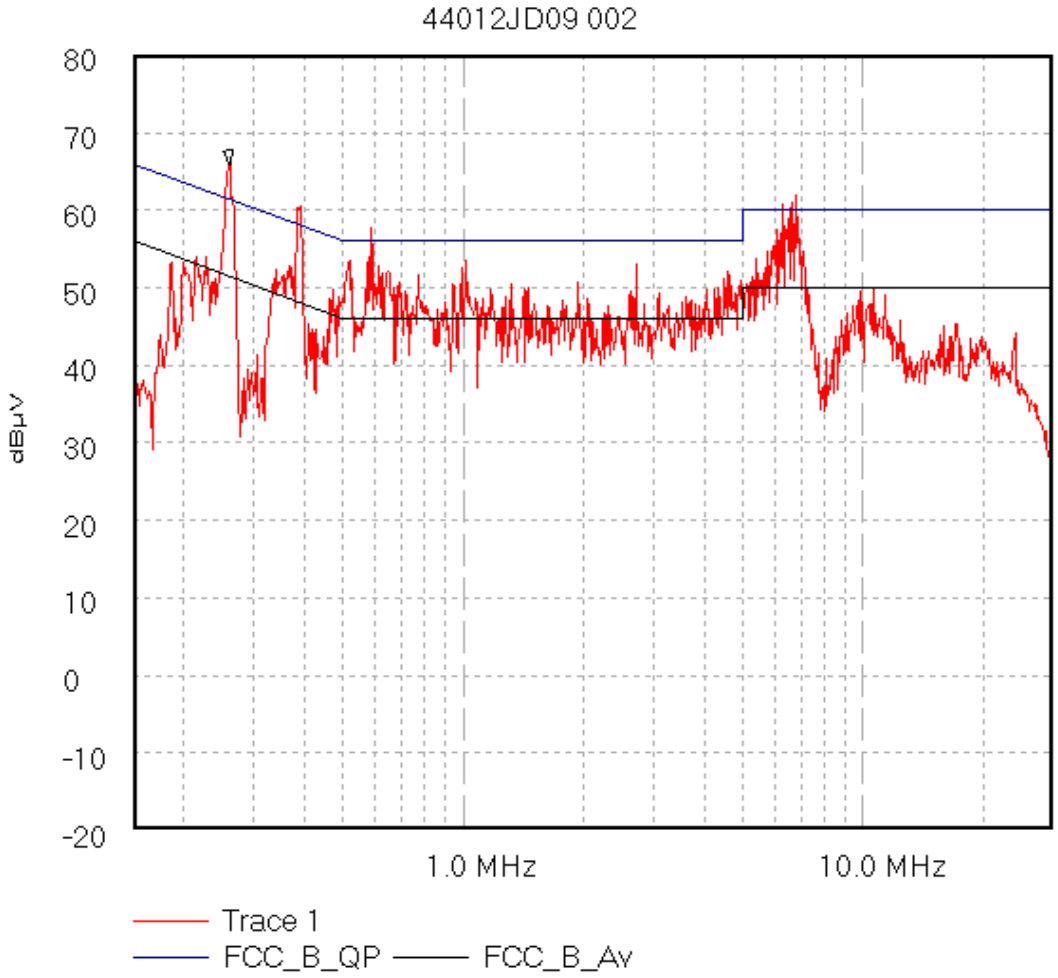
Graph Reference Number	Title
GPH\44012JD09\CE001	Peak output power, bottom channel 93.5 V AC
GPH\44012JD09\CE002	Peak output power, bottom channel 110 V AC
GPH\44012JD09\CE003	Peak output power, bottom channel 126.5 V AC
GPH\44012JD09\CE004	Peak output power, middle channel 93.5 V AC
GPH\44012JD09\CE005	Peak output power, middle channel 110 V AC
GPH\44012JD09\CE006	Peak output power, middle channel 126.5 V AC
GPH\44012JD09\CE007	Peak output power, top channel 93.5 V AC
GPH\44012JD09\CE008	Peak output power, top channel 110 V AC
GPH\44012JD09\CE009	Peak output power, top channel 126.5 V AC
GPH\44012JD09\CE010	Number of hopping frequencies, hopping all channels
GPH\44012JD09\CE011	20 dB Bandwidth, hopping all channels
GPH\44012JD09\CE012	Carrier frequency separation, hopping all channels
GPH\44012JD09\CE013	Time of occupancy (dwell time), hopping all channels
GPH\44012JD09\CE014	Time of occupancy (30 second period), hopping all channels
GPH\44012JD09\CE015	Band edge, bottom channel
GPH\44012JD09\CE016	Band edge, top channel
GPH\44012JD09a\001	Conducted spurious emissions, bottom channel (2.4 GHz to 2.4835 GHz)
GPH\44012JD09a\002	Conducted spurious emissions, bottom channel (30 MHz to 2.4 GHz)
GPH\44012JD09a\003	Conducted spurious emissions, middle channel (30 MHz to 2.4 GHz)
GPH\44012JD09a\004	Conducted spurious emissions, top channel (30 MHz to 2.4 GHz)
GPH\44012JD09a\005	Conducted spurious emissions, hopping all channels (30 MHz to 2.4 GHz)
GPH\44012JD09a\006	Conducted spurious emissions, receive mode (30 MHz to 2.4 GHz)
GPH\44012JD09a\007	Conducted spurious emissions, receive mode (2.4835 GHz to 12.5 GHz)

Graphical Test Results (continued)

Graph Reference Number	Title
GPH\44012JD09a\008	Conducted spurious emissions, hopping all channels (2.4835 GHz to 12.5 GHz)
GPH\44012JD09a\009	Conducted spurious emissions, bottom channel (2.4835 GHz to 12.5 GHz)
GPH\44012JD09a\010	Conducted spurious emissions, middle channel (2.4835 GHz to 12.5 GHz)
GPH\44012JD09a\011	Conducted spurious emissions, top channel (2.4835 GHz to 12.5 GHz)
GPH\44012JD09a\012	Conducted spurious emissions, top channel (12.5 GHz to 26.5 GHz)
GPH\44012JD09a\013	Conducted spurious emissions, middle channel (12.5 GHz to 26.5 GHz)
GPH\44012JD09a\014	Conducted spurious emissions, bottom channel (12.5 GHz to 26.5 GHz)
GPH\44012JD09a\015	Conducted spurious emissions, hopping all channels (12.5 GHz to 26.5 GHz)
GPH\44012JD09a\016	Conducted spurious emissions, receive mode (12.5 GHz to 26.5 GHz)
GPH\44012JD09\032	Scan of radiated emissions, Tx hopping, bottom channel, band edge
GPH\44012JD09\033	Scan of radiated emissions, Tx hopping, top channel, band edge

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

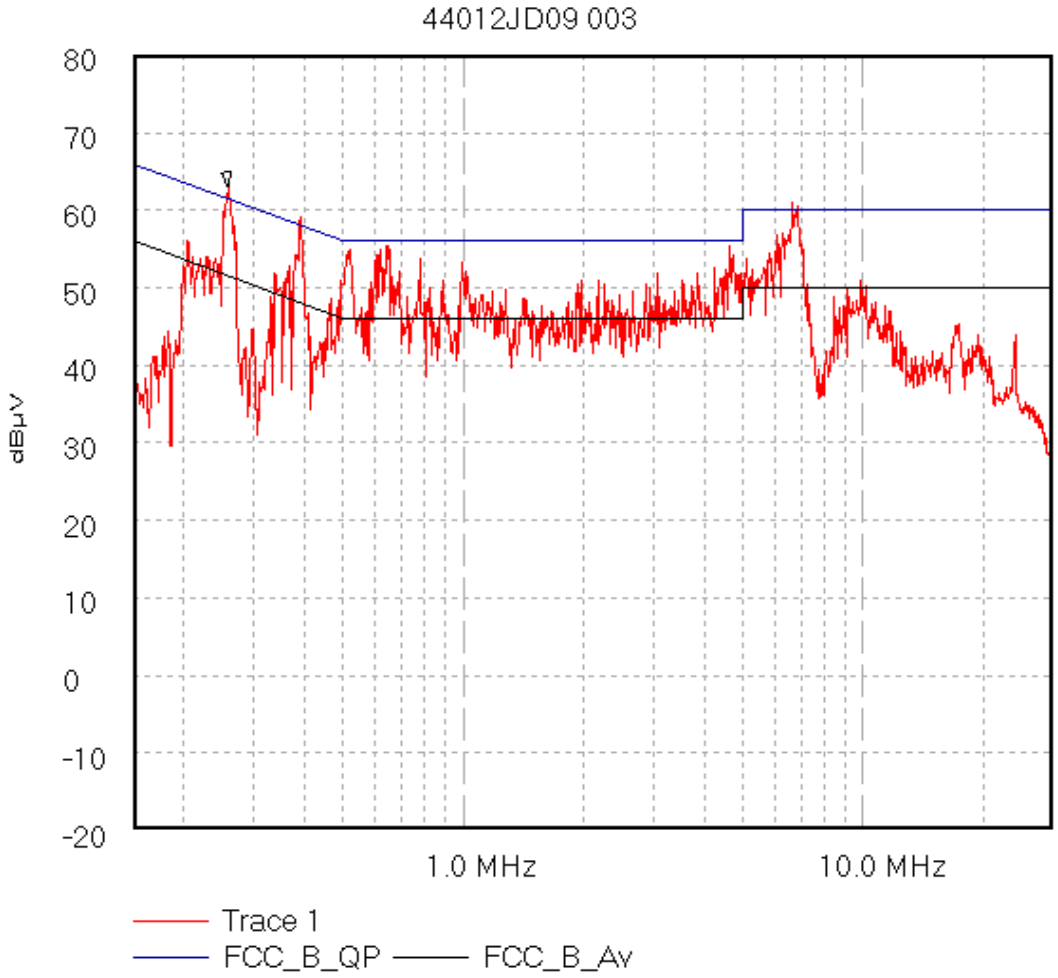
GPH\44012JD09\002
AC Conducted Emissions. FCC Part 15. Test for Brain Boxes of BL510\642.
Operating condition:- Receive Mode.



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 1.94 S
Peak 260.868 kHz, 65.84 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:17:58 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

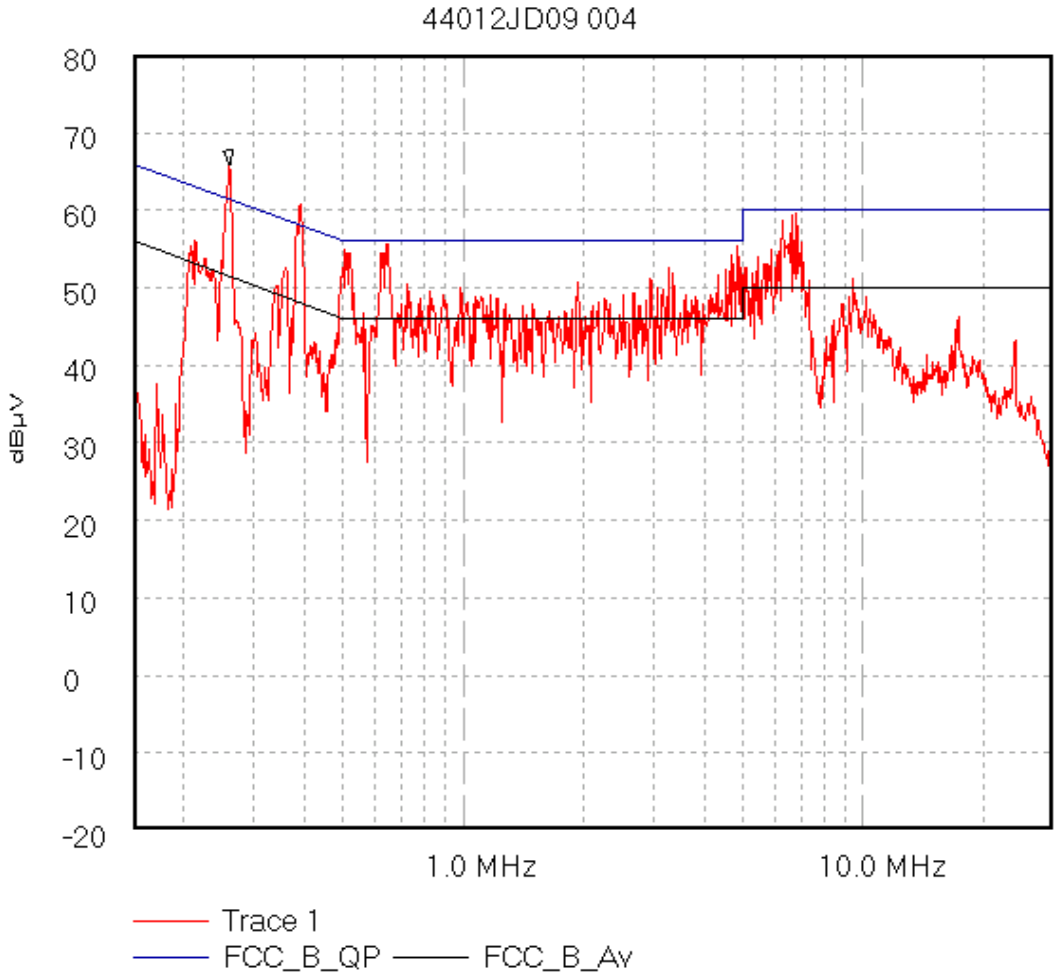
GPH\44012JD09\003
AC Conducted Emissions. FCC Part 15. Test for Brain Boxes of BL510\642.
Operating Condition:- Hopping Mode.



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 340.0 mS
Peak 257.814 kHz, 62.94 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:21:38 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

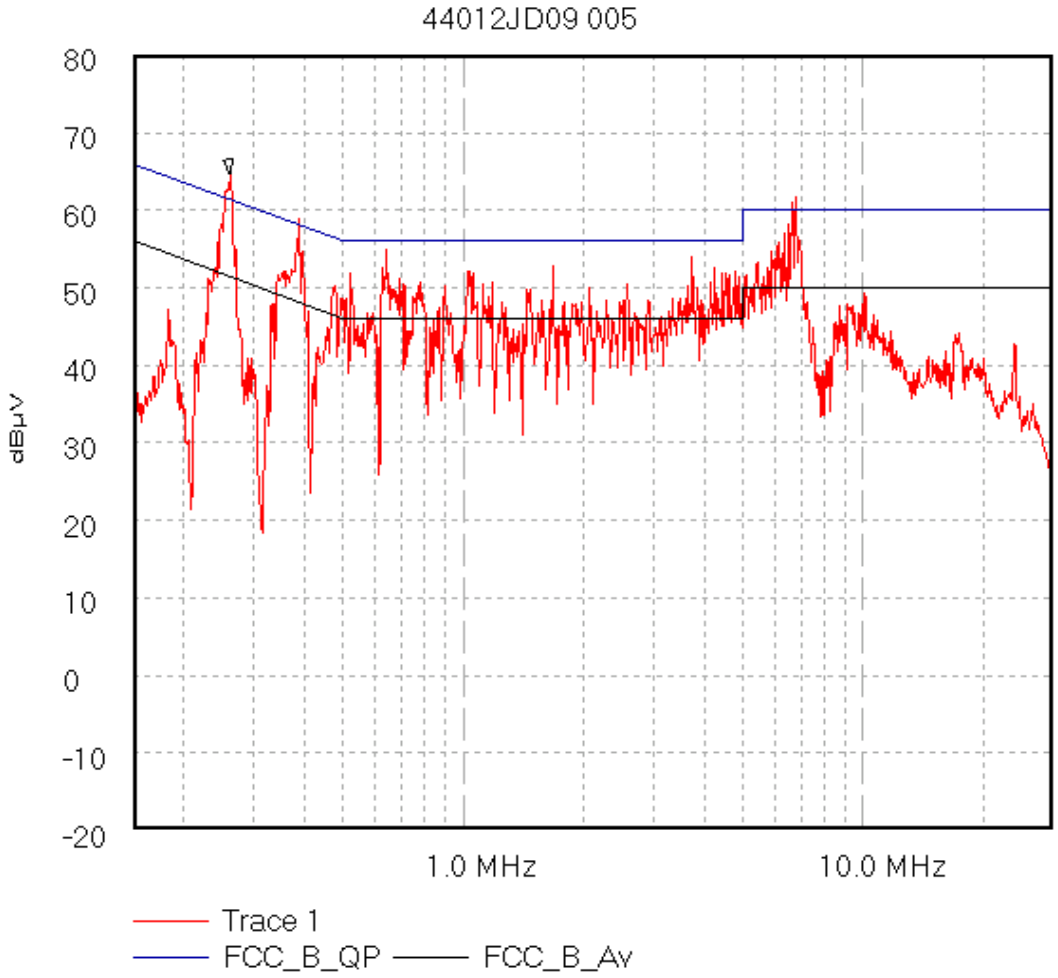
GPH\44012JD09\004
AC Conducted Emissions. FCC Part 15. Test for Brain Boxes of BL510\642.
Operating Condition:- Bottom Channel.



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 1.94 S
Peak 259.336 kHz, 65.86 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:25:51 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

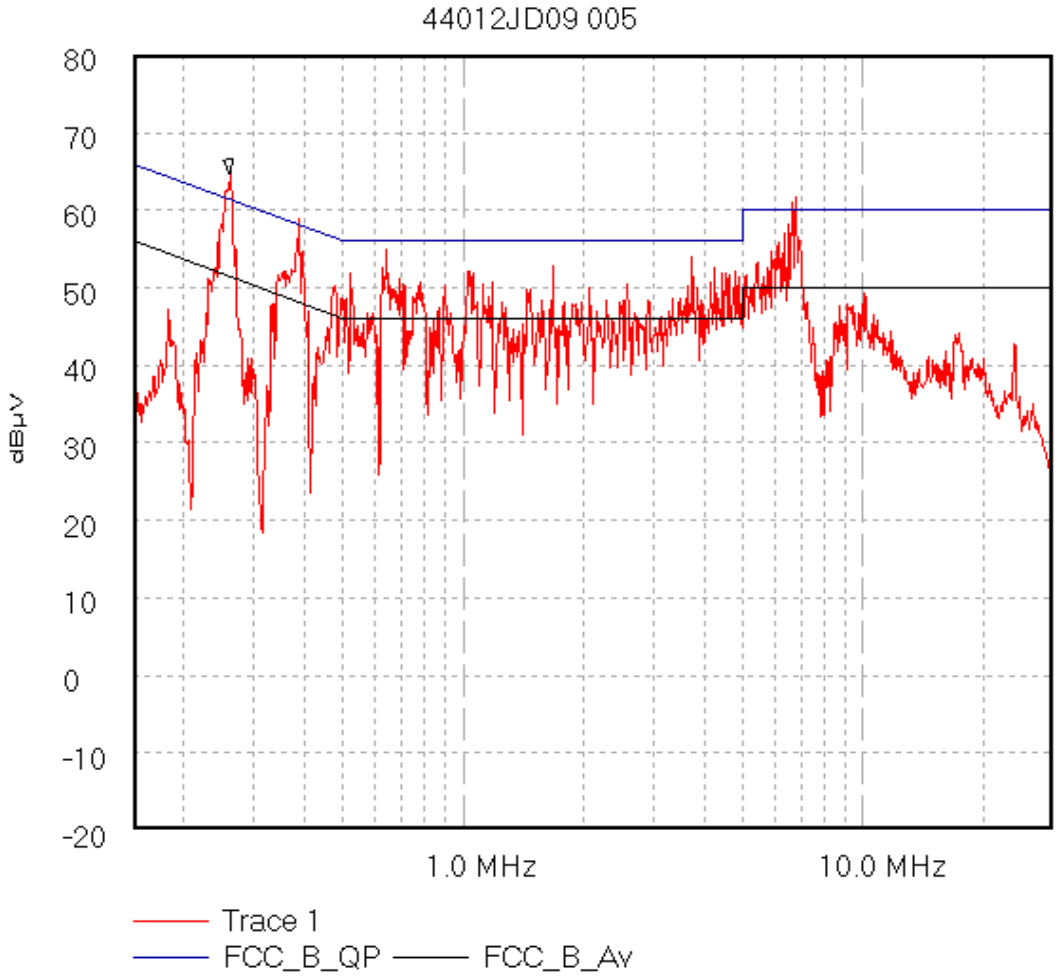
GPH\44012JD09\005
AC Conducted Emissions. FCC Part 15. Test for Brain Boxes of BL510\642.
Operating Condition:- Middle Channel



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 60.0 mS
Peak 260.868 kHz, 64.69 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:28:27 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

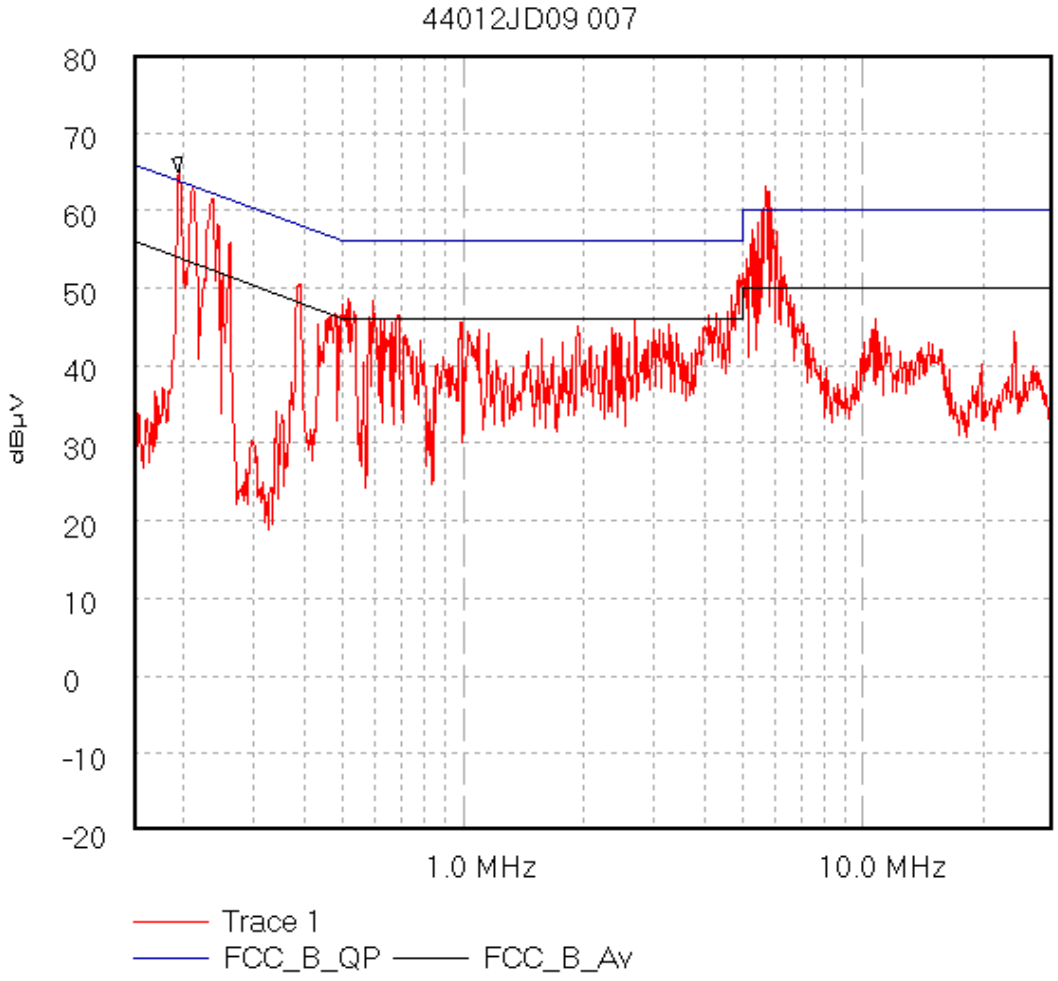
GPH\44012JD09\006
AC Conducted Emissions. FCC Part 15. Test for Brain Boxes of BL510\642.
Operating condition: Top Channel



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 60.0 mS
Peak 260.868 kHz, 64.69 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:28:27 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

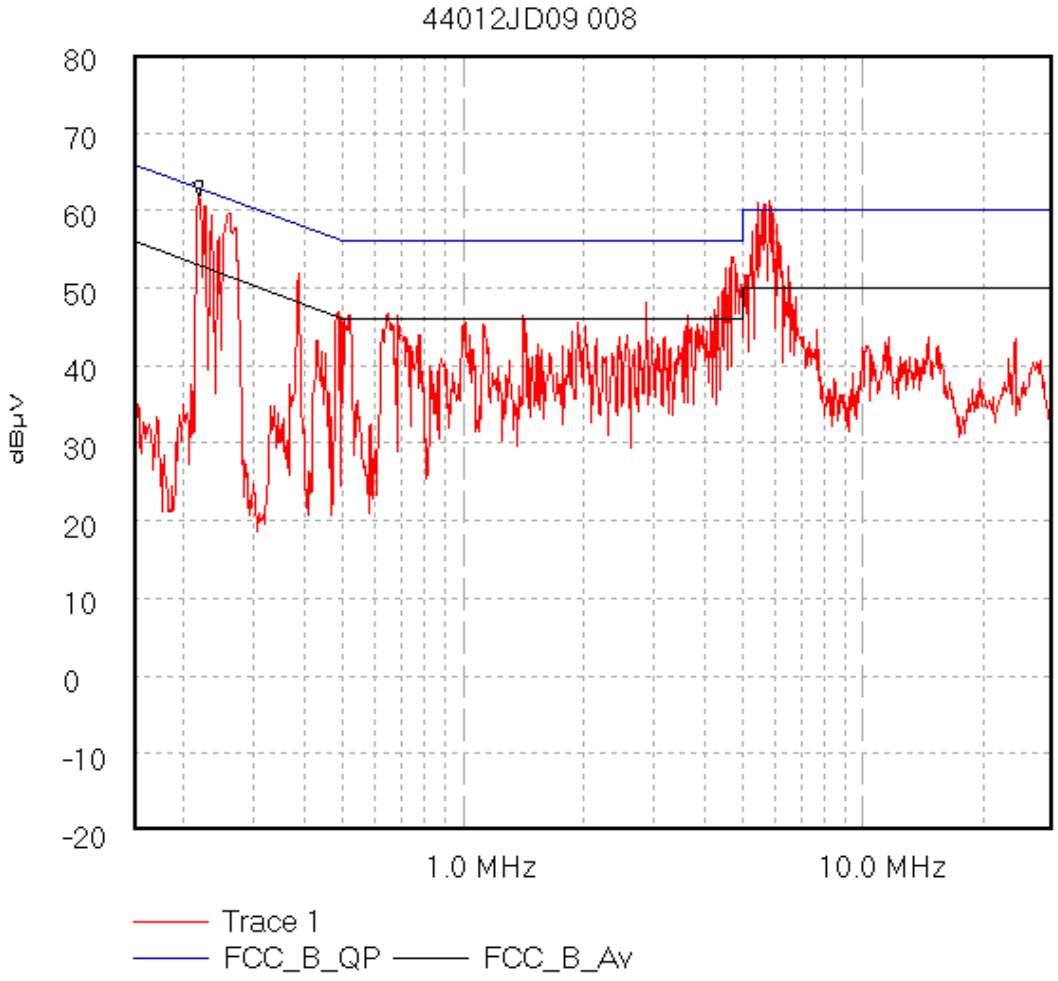
GPH\44012JD09\007
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL510\642, (Laptop supply test point)
Operating condition: Receive Mode



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 1.94 S
Peak 194.35 kHz, 64.79 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:43:37 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

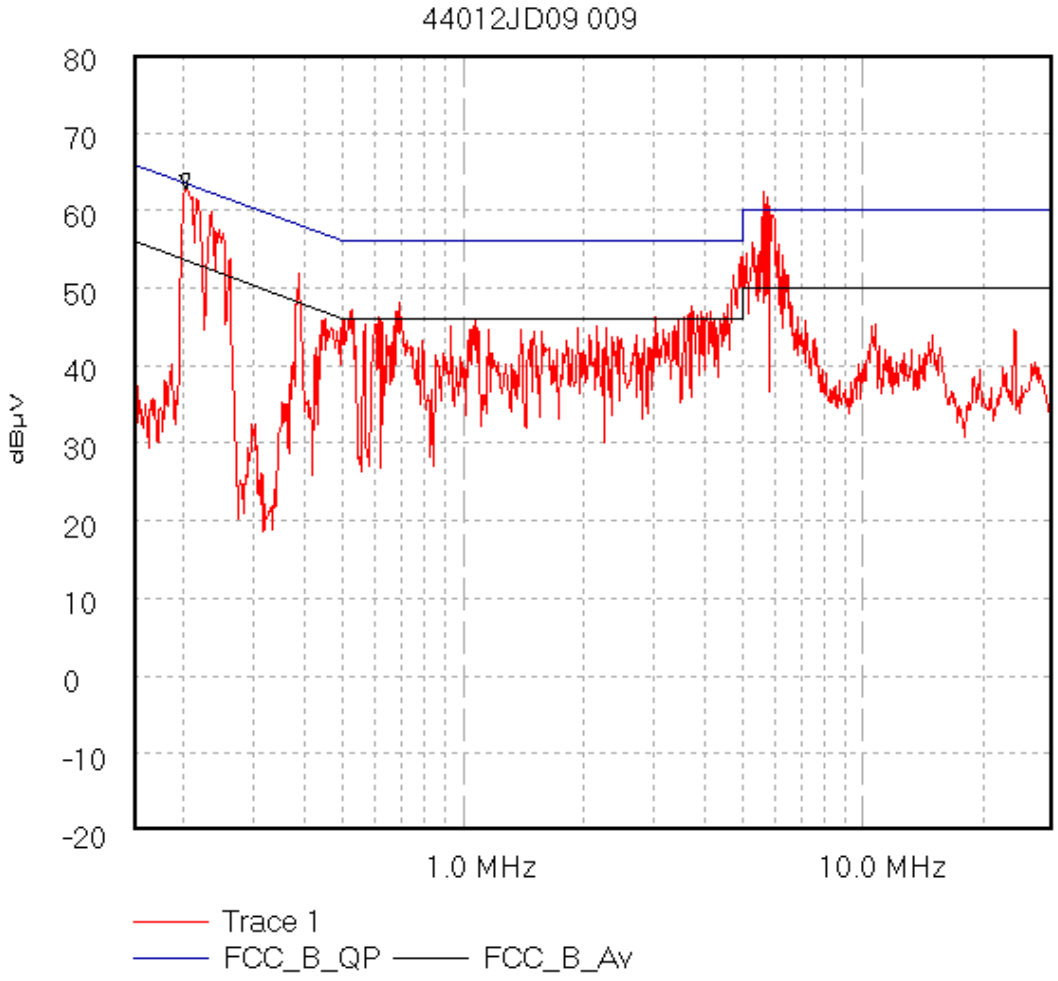
GPH\44012JD09\008
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL510\642, (Laptop supply test point)
Operating condition: Hopping mode



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 1.94 S
Peak 218.635 kHz, 61.9 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:46:06 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

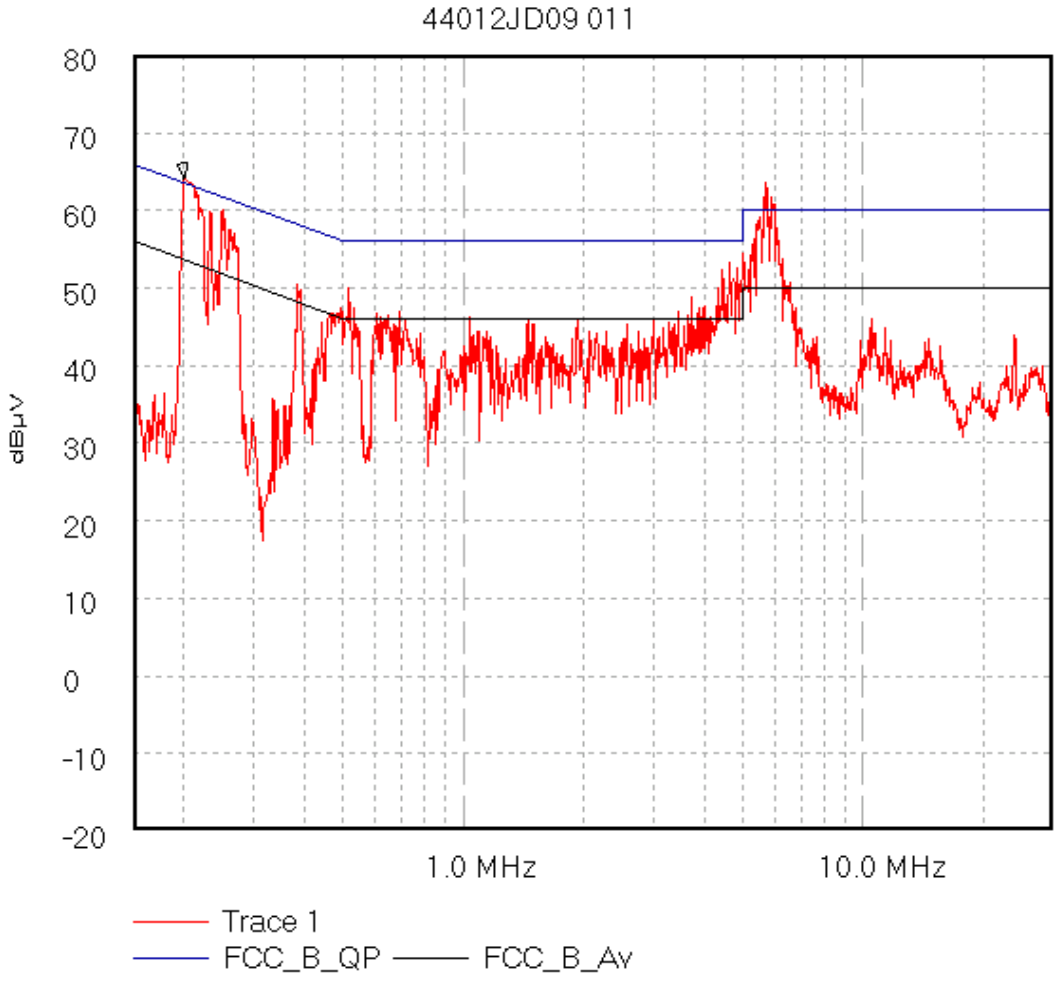
GPH\44012JD09\009
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL510\642, (Laptop supply test point)
Operating condition: Bottom Channel



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 60.0 mS
Peak 202.527 kHz, 62.74 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:48:12 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

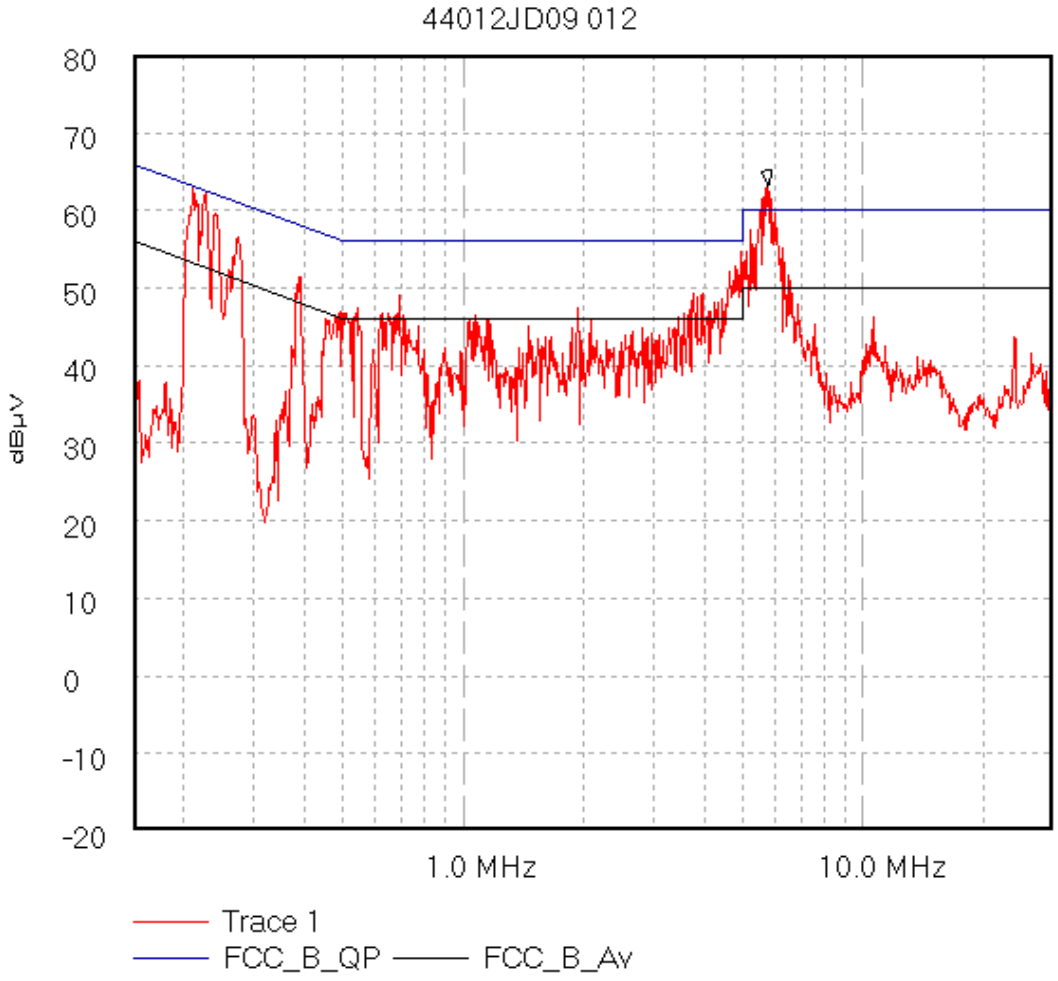
GPH\44012JD09\011
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL510\642, (Laptop supply test point)
Operating condition: Top Channel



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 1.94 S
Peak 201.338 kHz, 64.08 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 2:53:01 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

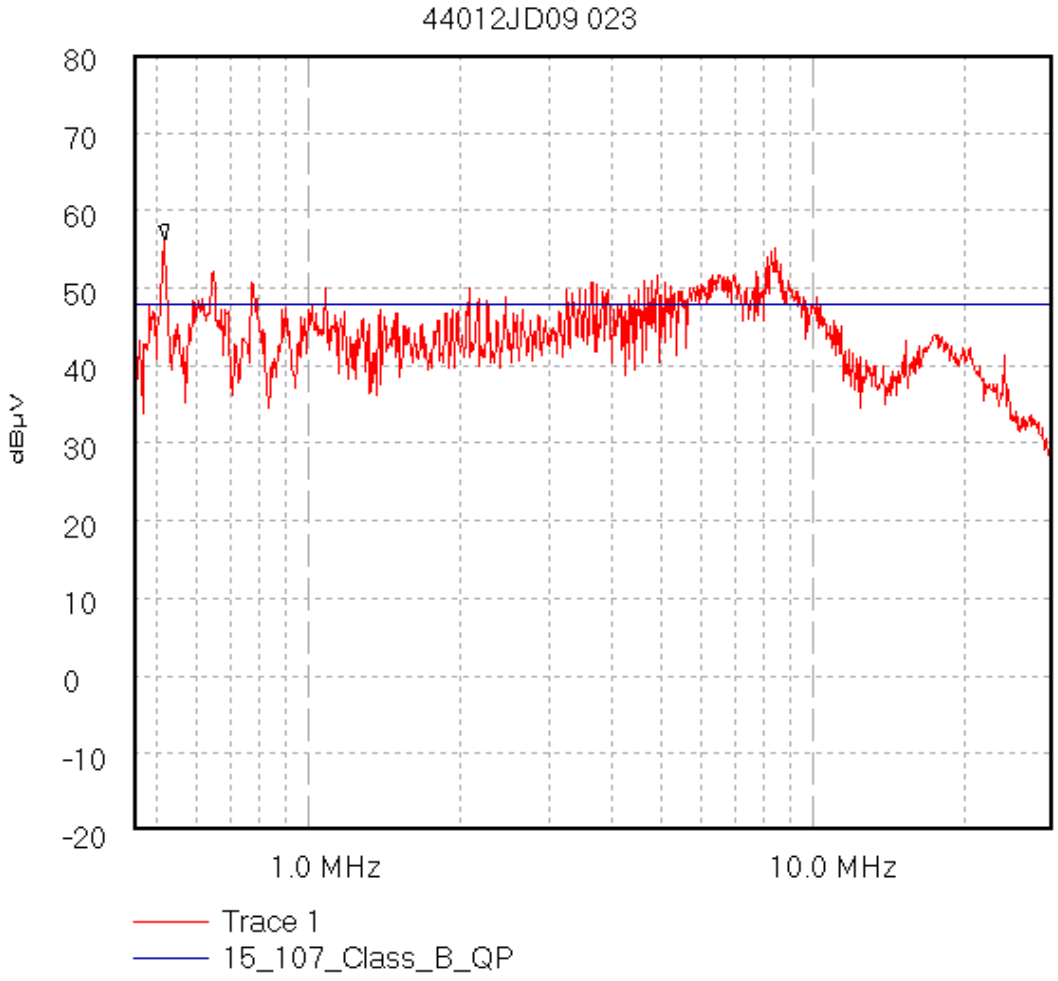
GPH\44012JD09\012
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL510\642, (Laptop supply test point)
Operating condition: Middle Channel



Start 150.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 1.94 S
Peak 5.771 MHz, 63.14 dBµV
Limit/Mask: FCC_B_QP; FCC_B_Av; ; Limit Test Failed
16/10/2002 3:13:00 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

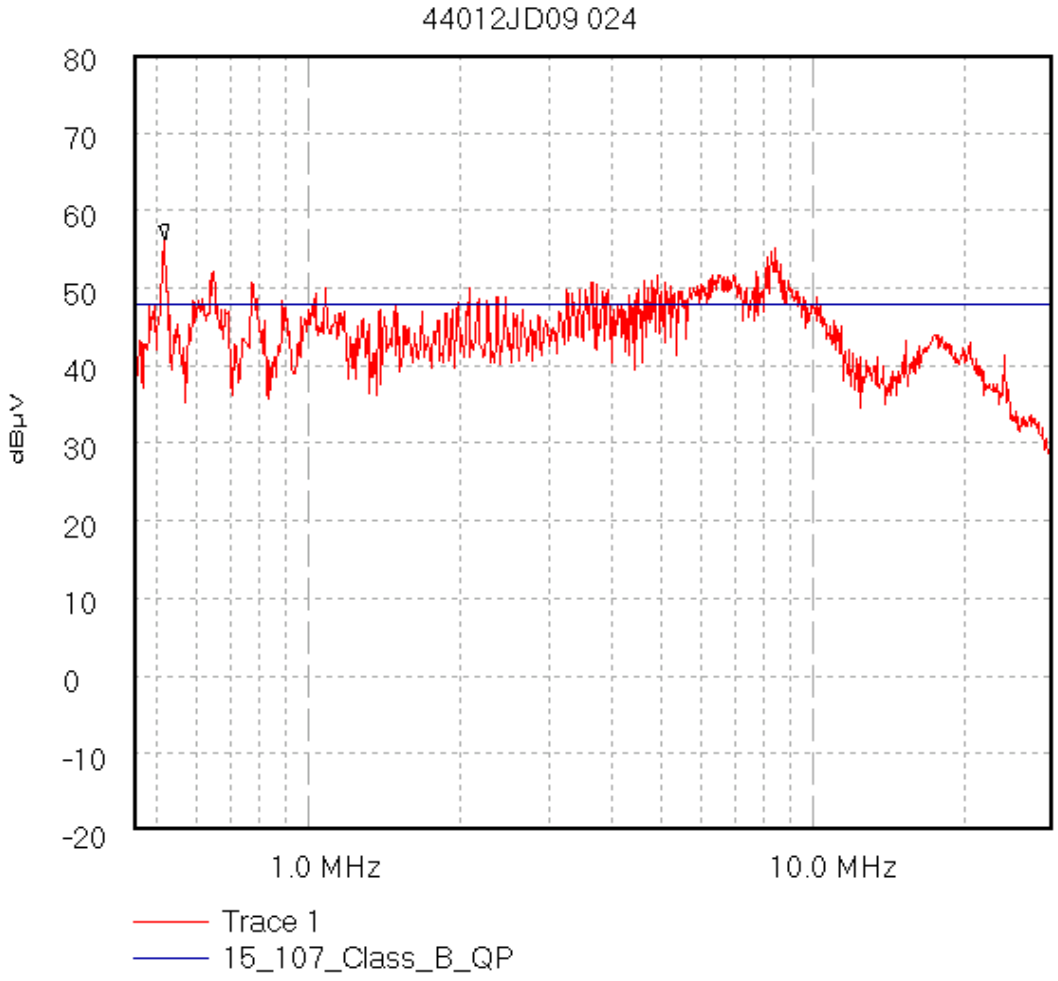
GPH\44012JD09\023
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. EUT Power Lead.
Operating condition:- Receive Mode.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 517.618 kHz, 56.26 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:21:51

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

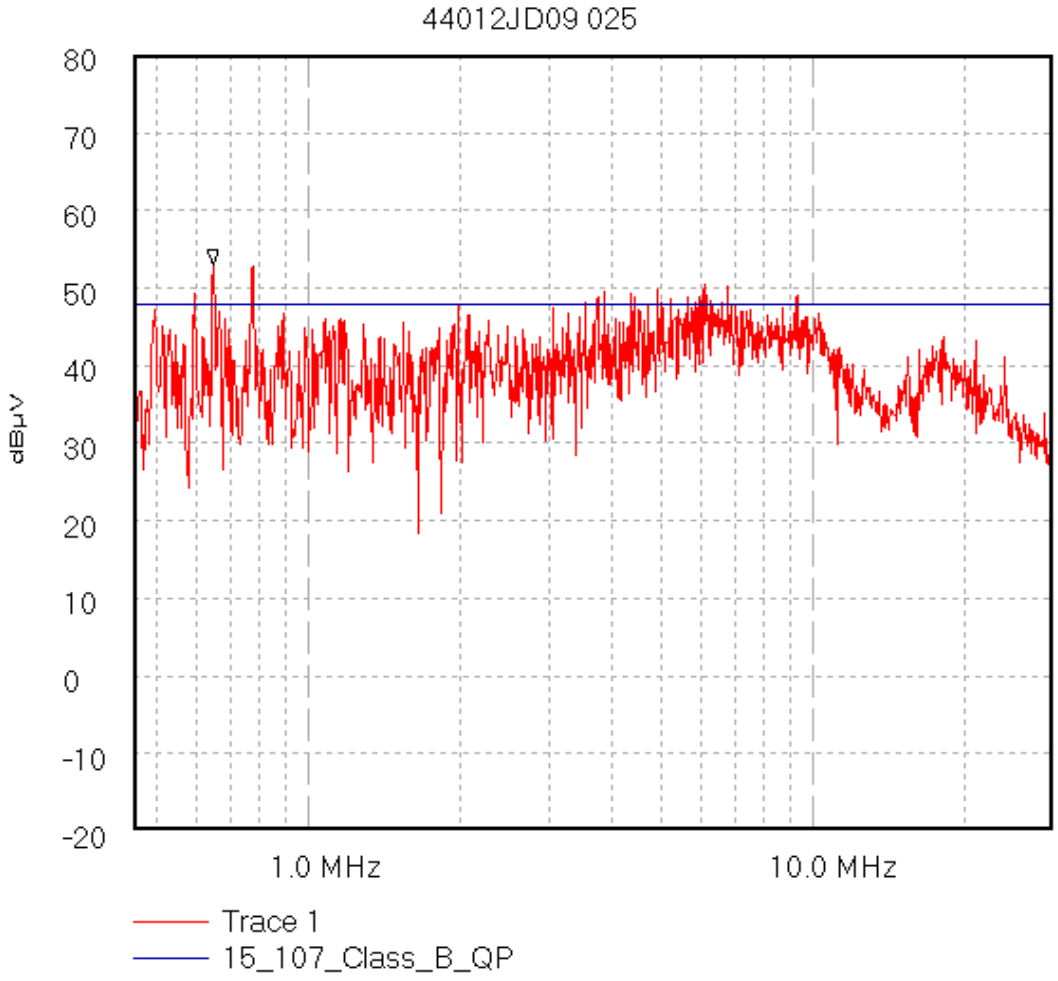
GPH\44012JD09\024
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. EUT Power Lead.
Operating condition:- Bottom Channel.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 517.618 kHz, 56.26 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:24:54

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

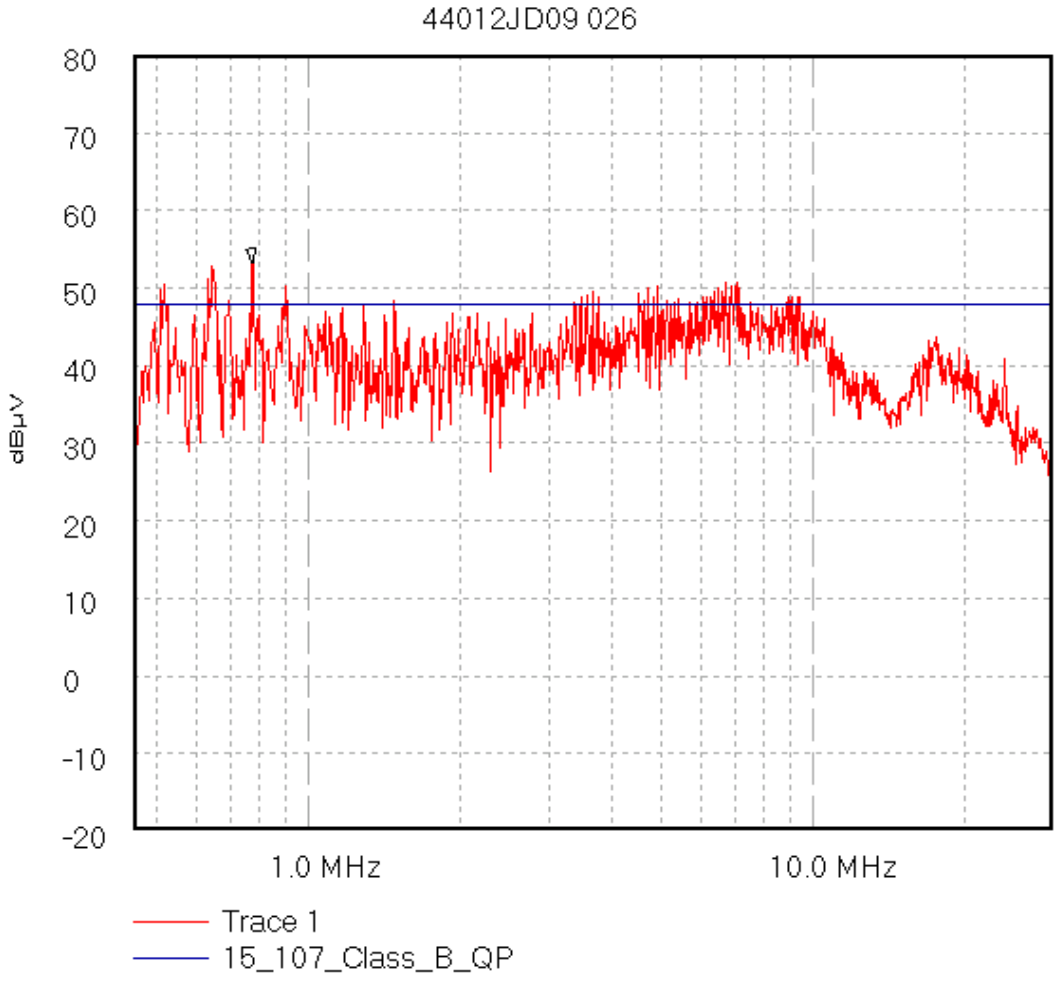
GPH\44012JD09\025
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. EUT Power Lead.
Operating Condition:- Middle Channel.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 647.566 kHz, 53.06 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:32:25

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

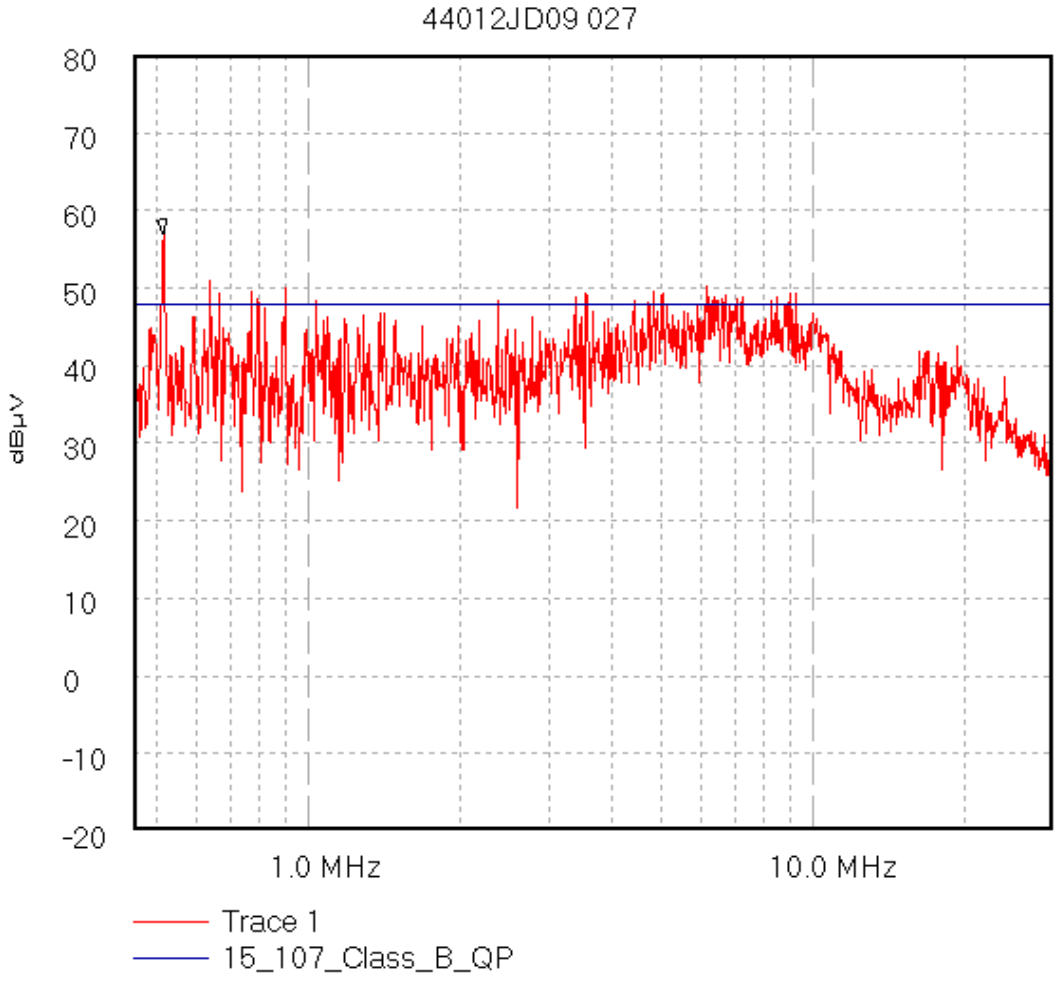
GPH\44012JD09\026
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. EUT Power Lead.
Operating condition:- Top Channel.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 773.204 kHz, 53.16 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:34:24

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

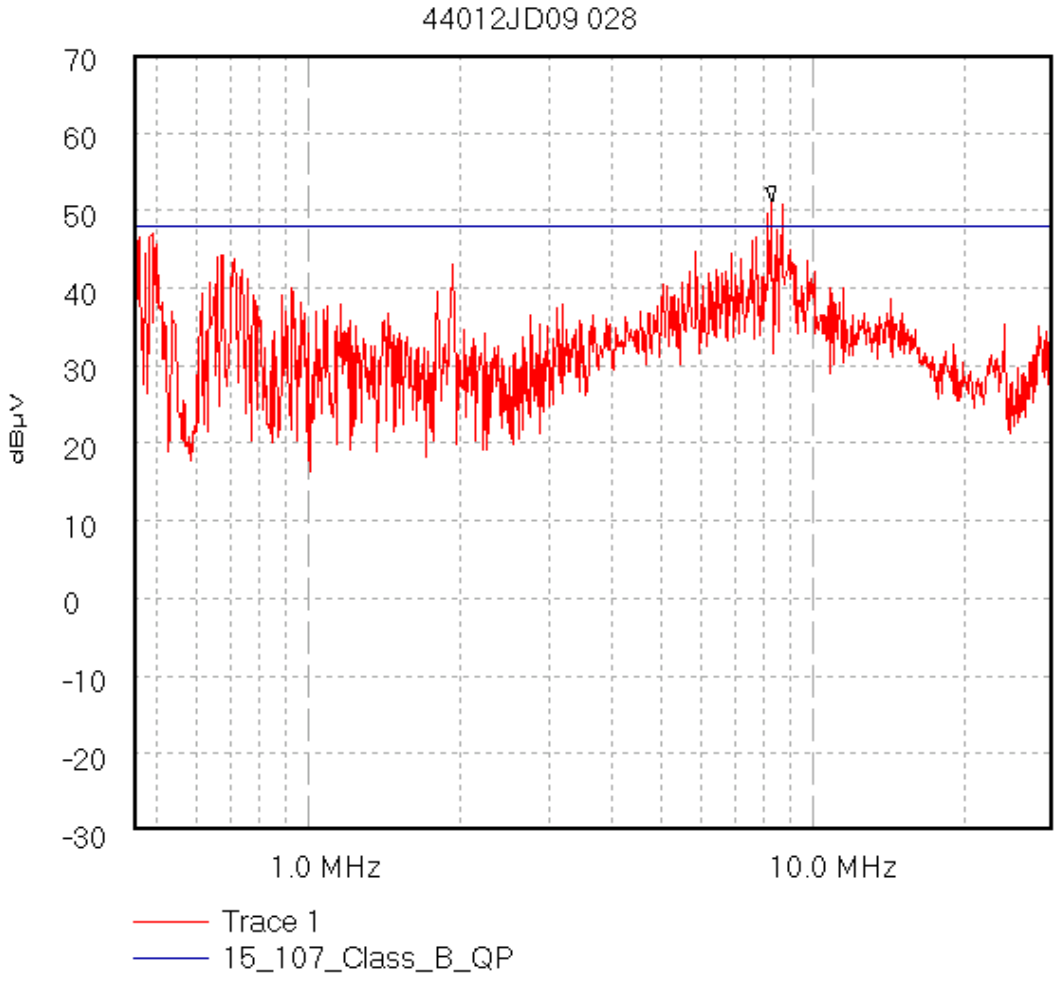
GPH\44012JD09\027
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. EUT Power Lead.
Operating condition:- Hopping Mode.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 80 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 515.208 kHz, 56.85 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:35:44

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

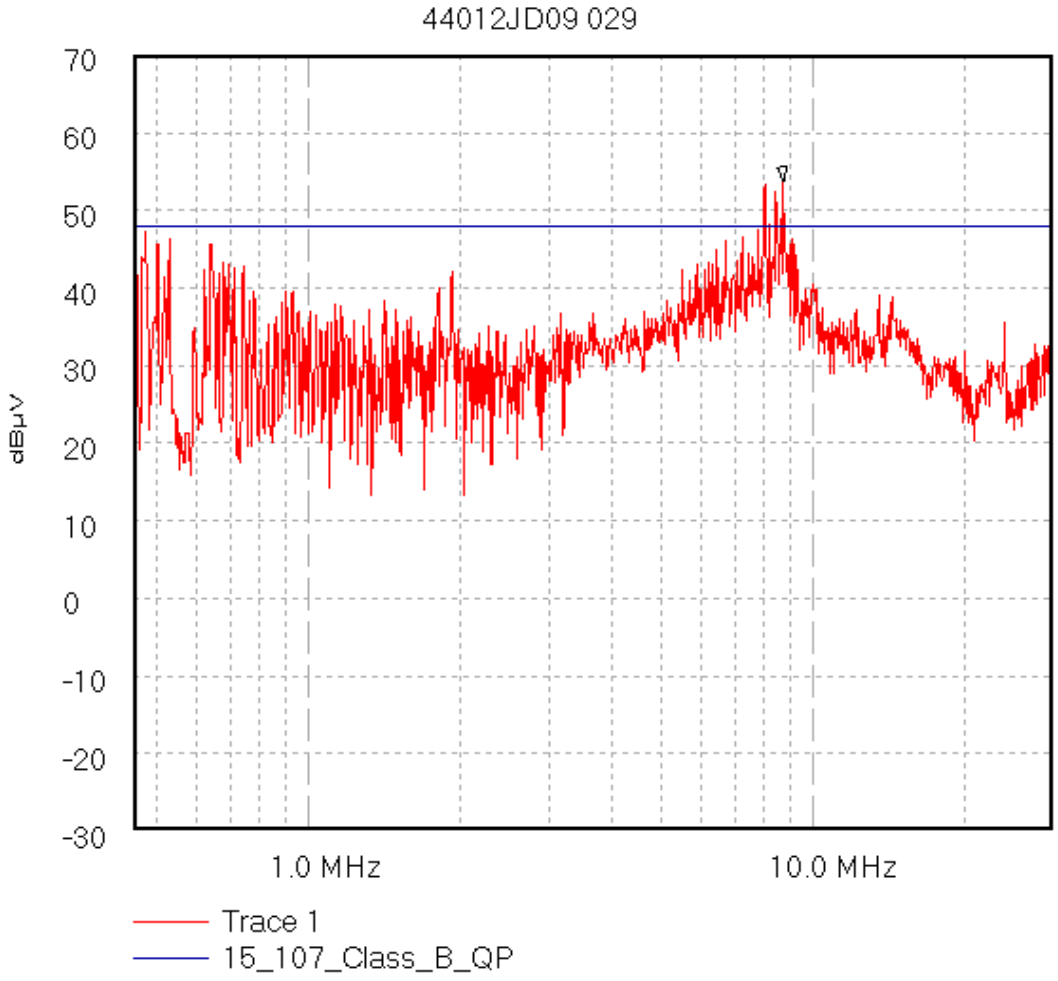
GPH\44012JD09\028
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. Laptop power lead.
Operating Condition:- Receive Mode.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 70 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 260.0 mS
Peak 8.314 MHz, 51.06 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:50:30

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

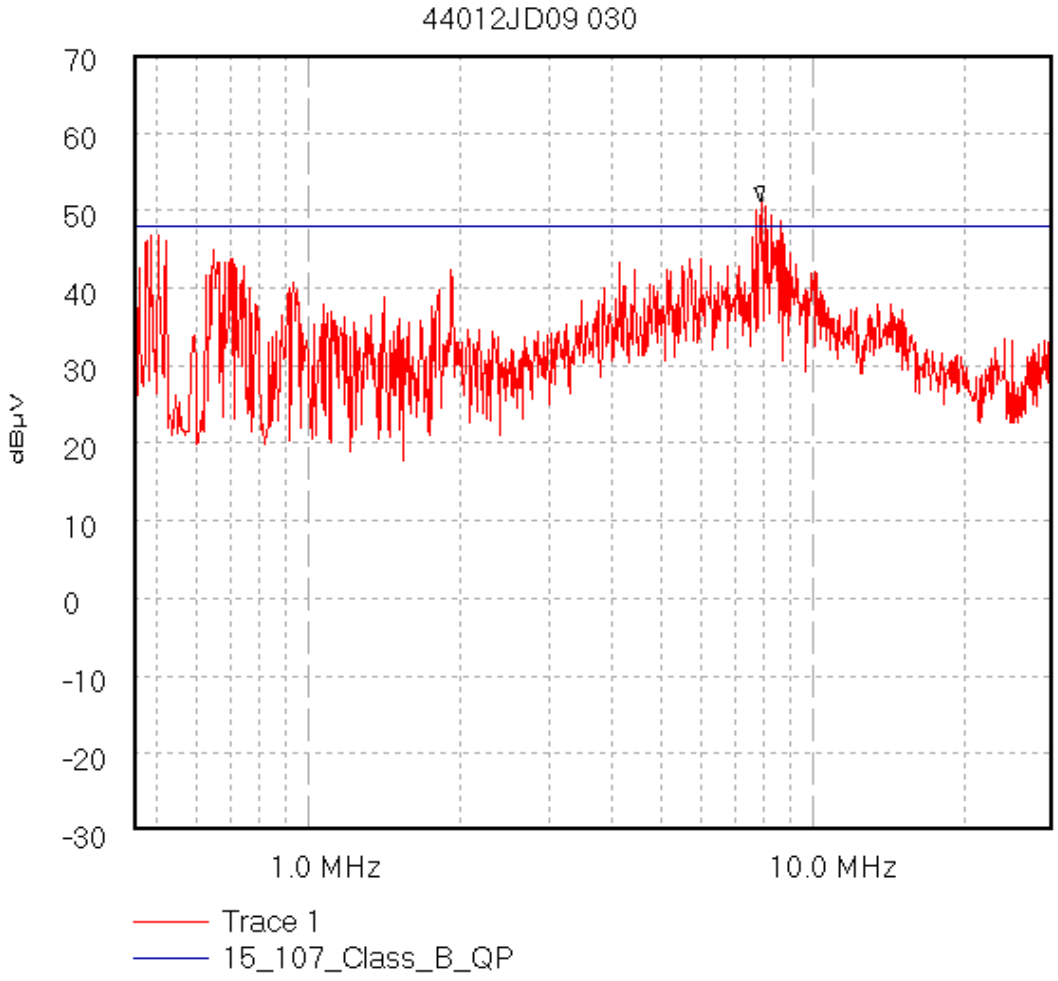
GPH\44012JD09\029
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. Laptop power lead.
Operating Condition:- Bottom Channel.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 70 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 8.752 MHz, 53.75 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:52:52

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

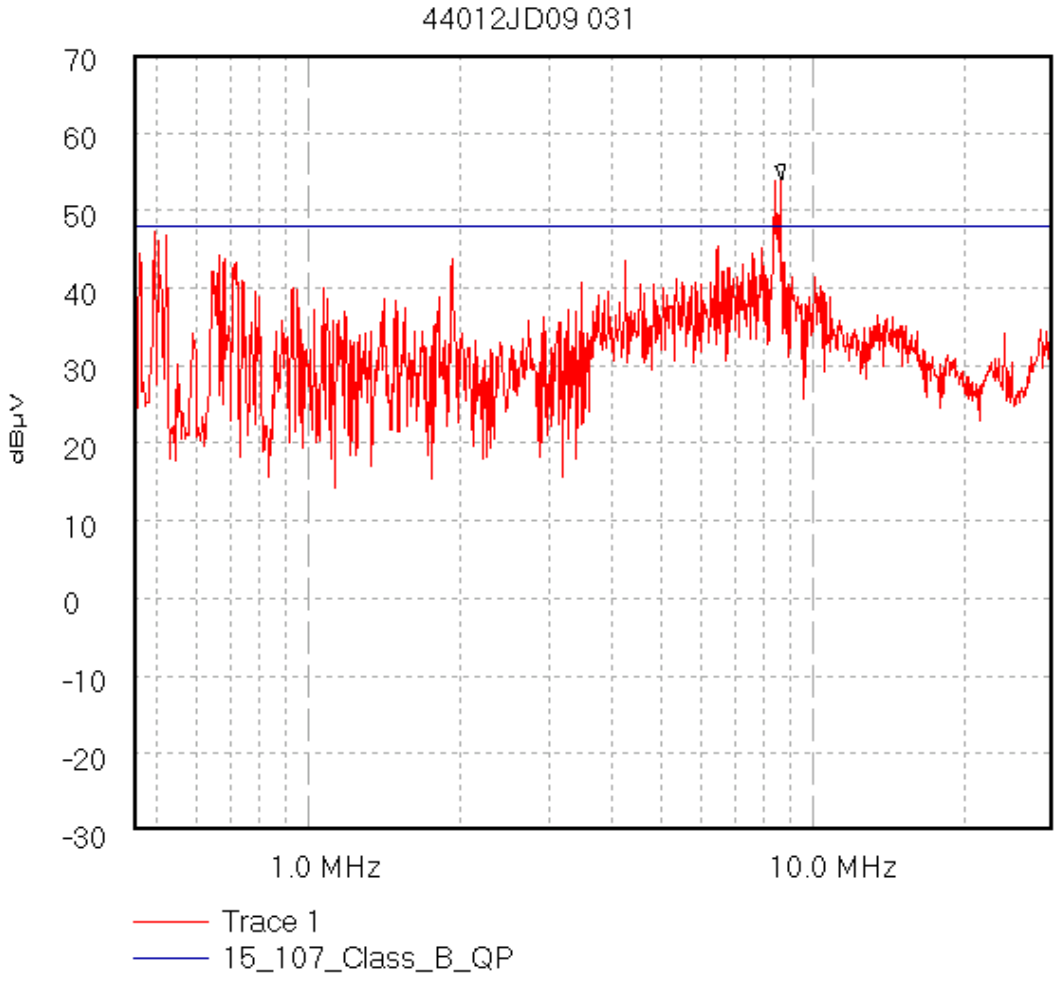
GPH\44012JD09\030
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. Laptop power lead.
Operating Condition:- Middle Channel.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 70 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 7.898 MHz, 51.04 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:54:13

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

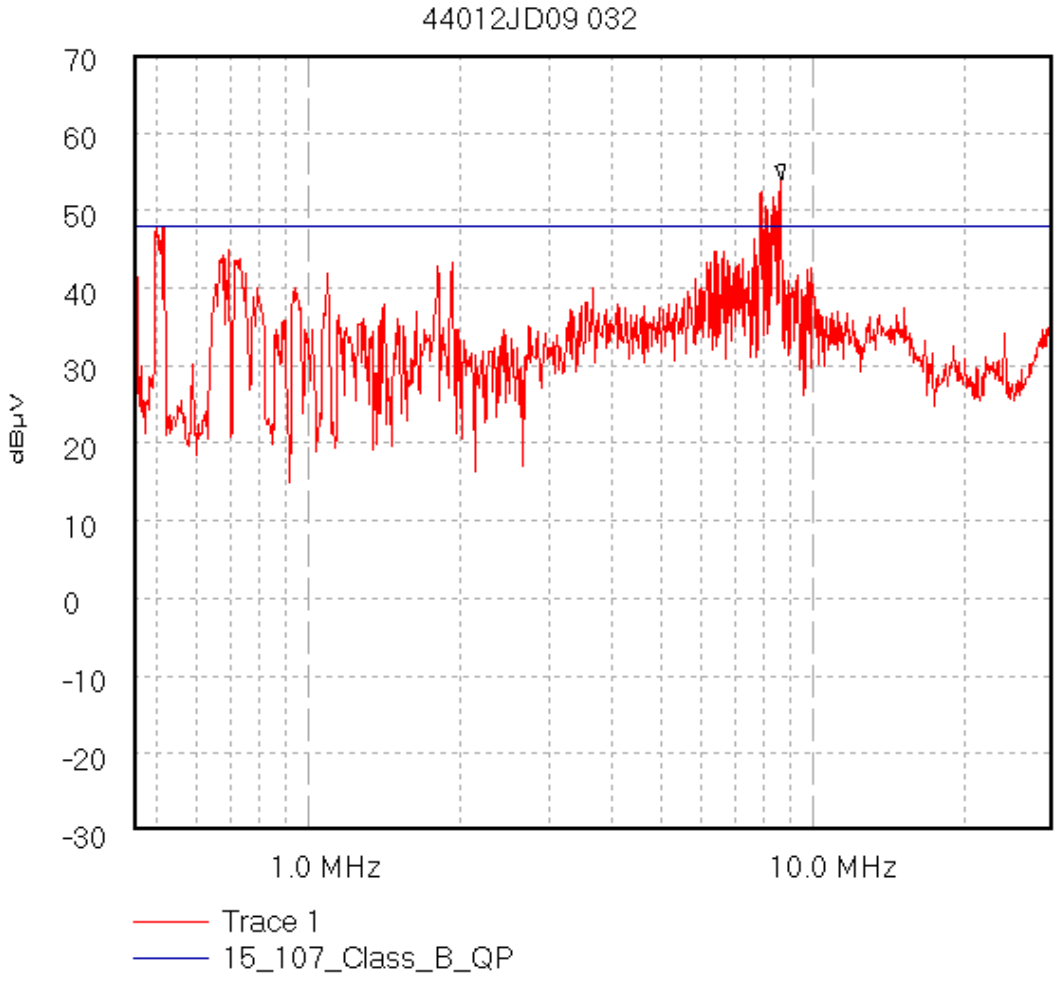
GPH\44012JD09\031
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. Laptop power lead.
Operating Condition:- Top Channel.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 70 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 8.63 MHz, 53.96 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:55:23

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\032
AC Conducted Emissions. FCC Part 15.
Test for Brain Boxes of BL-510/642 RS232 Adaptor. Laptop power lead.
Operating Condition:- Hopping Mode.



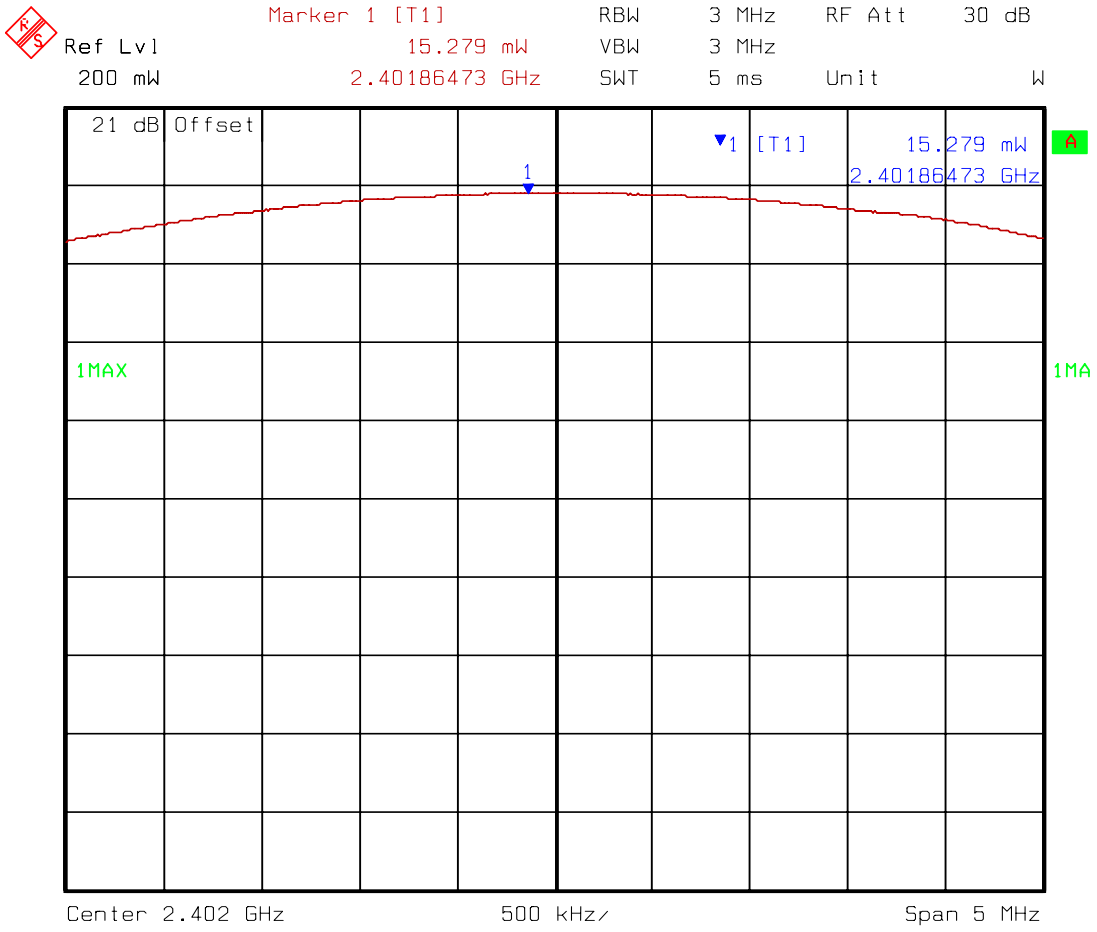
Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 70 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 2.2 S
Peak 8.671 MHz, 54.01 dBµV
Limit/Mask: 15_107_Class_B_QP; ; Limit Test Failed
17/10/2002 09:56:38

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE001



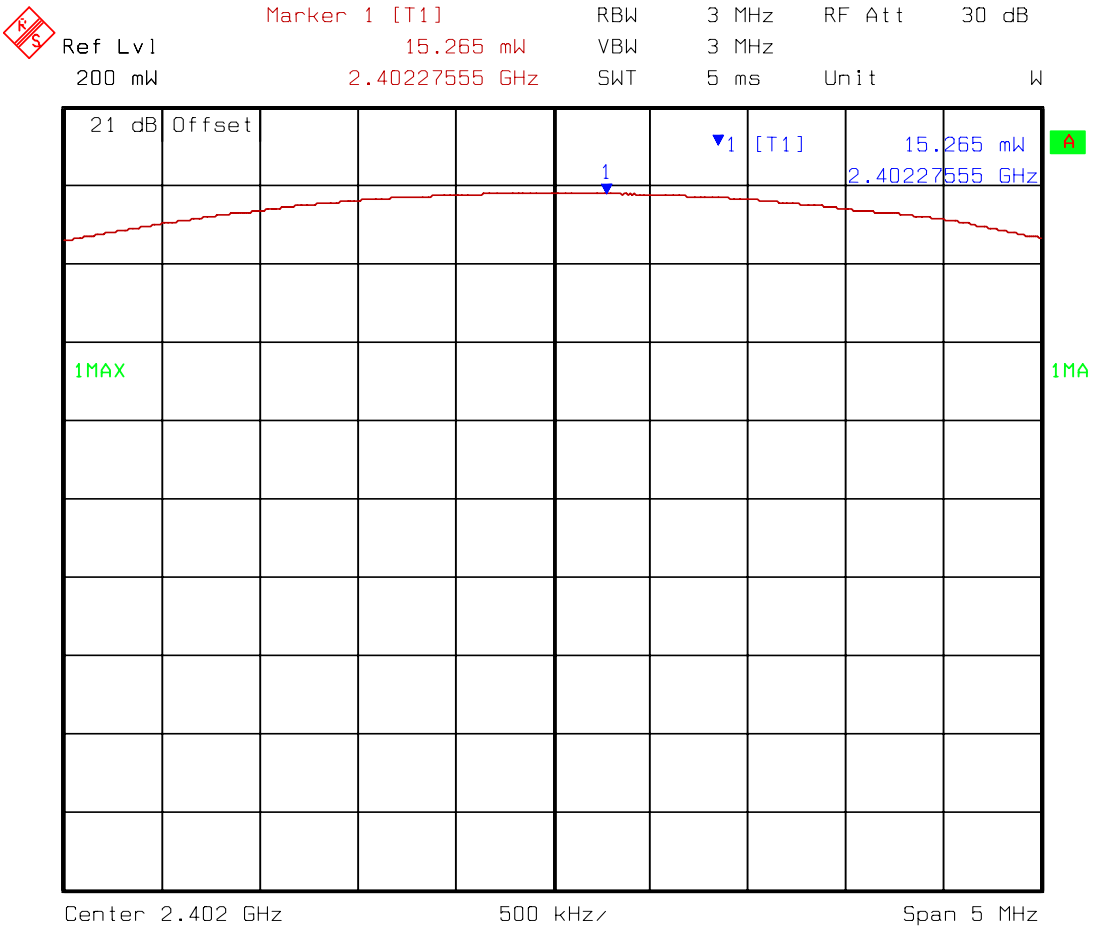
Title: Peak Output Power - Bottom Channel, 93.5Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 10:50:40

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE002



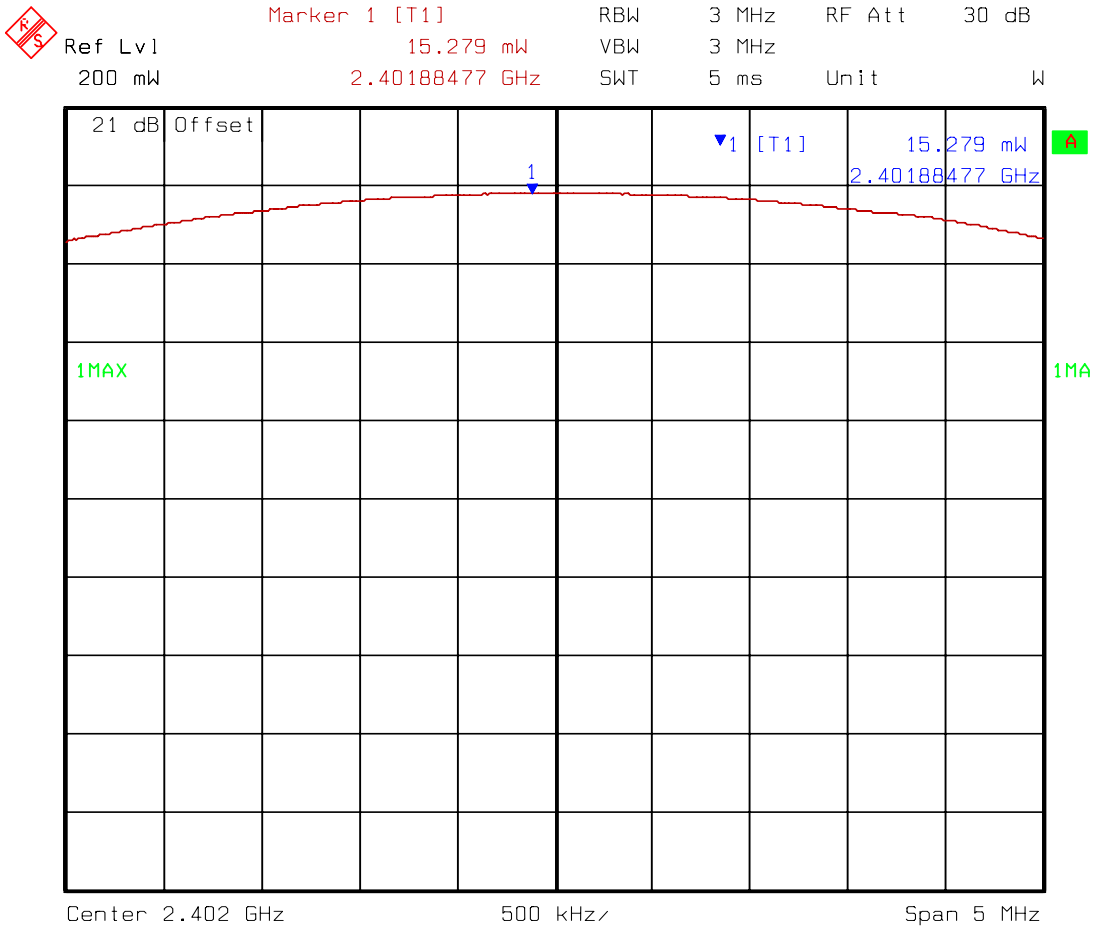
Title: Peak Output Power - Bottom Channel, 110Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 10:47:12

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE003



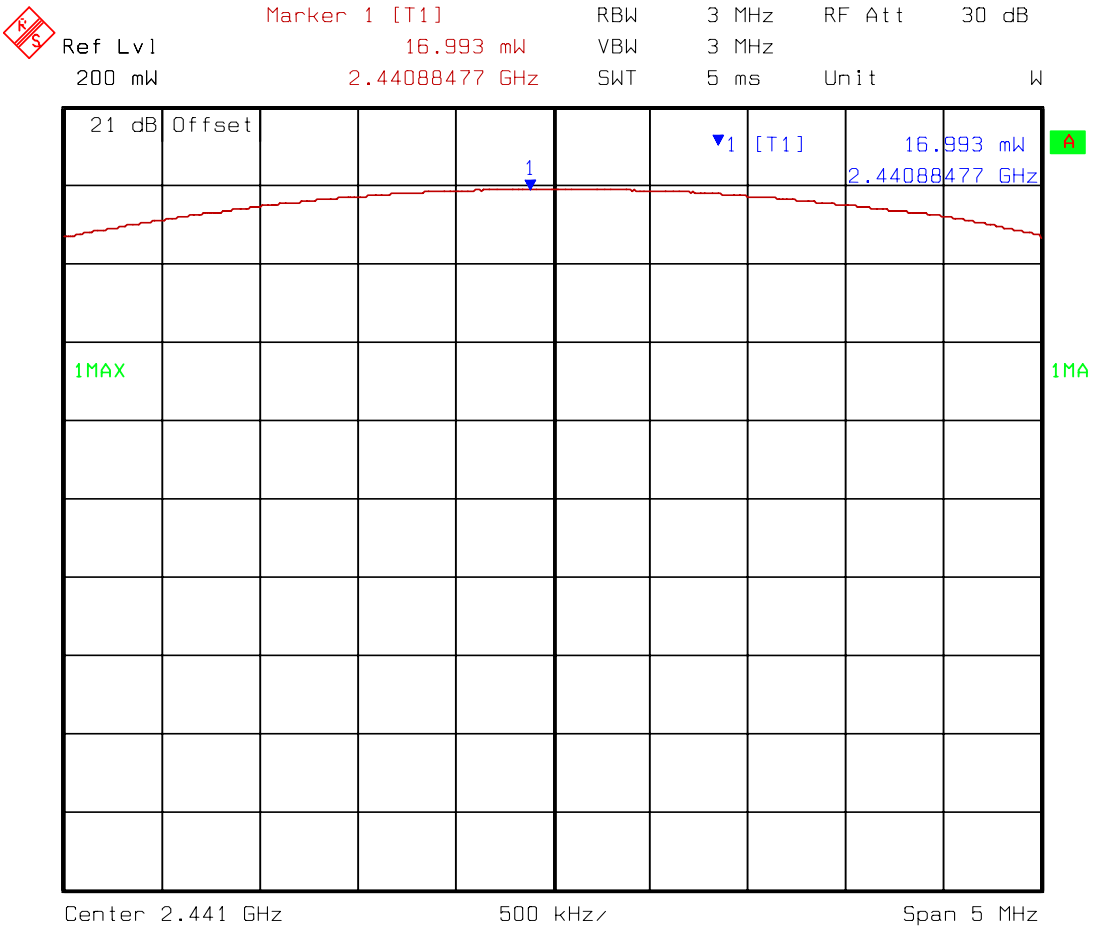
Title: Peak Output Power - Bottom Channel, 126.5Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 11:03:30

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE004



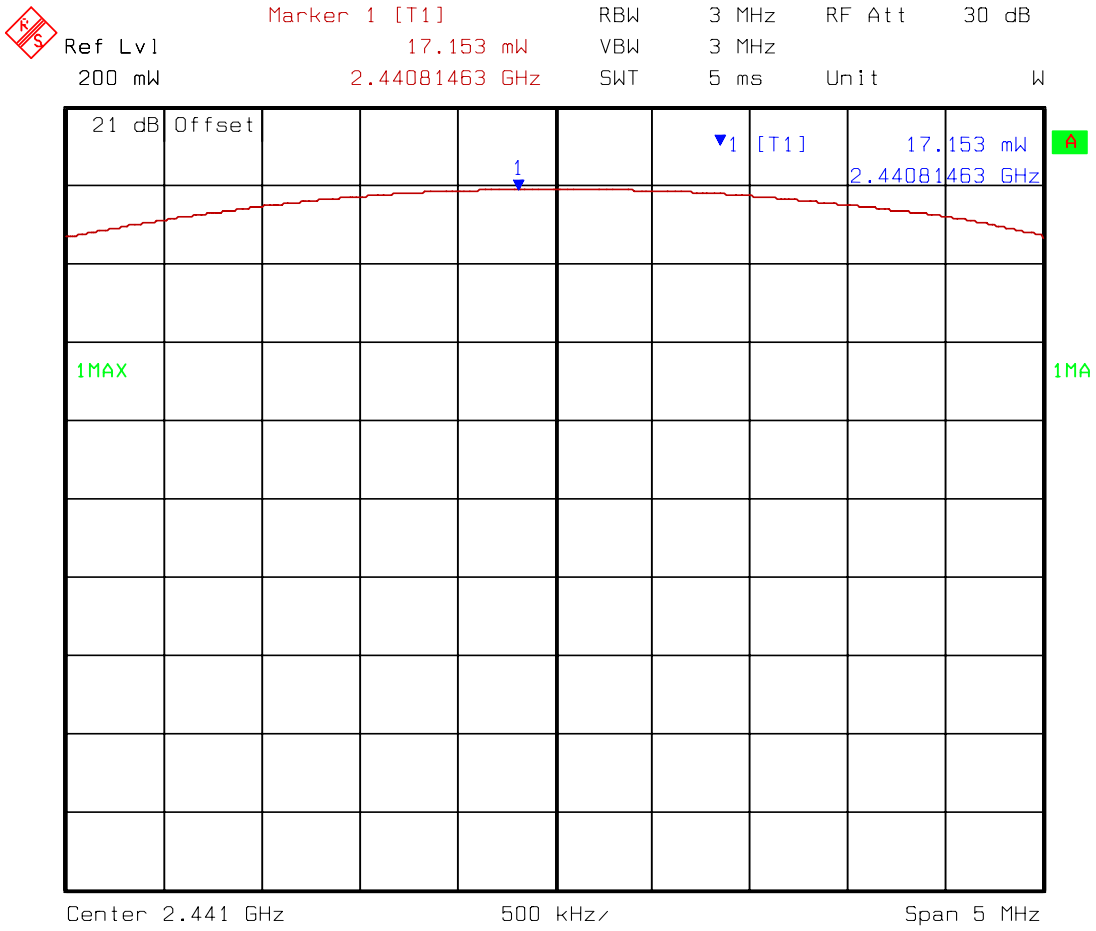
Title: Peak Output Power - Middle Channel, 93.5Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 10:49:45

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE005



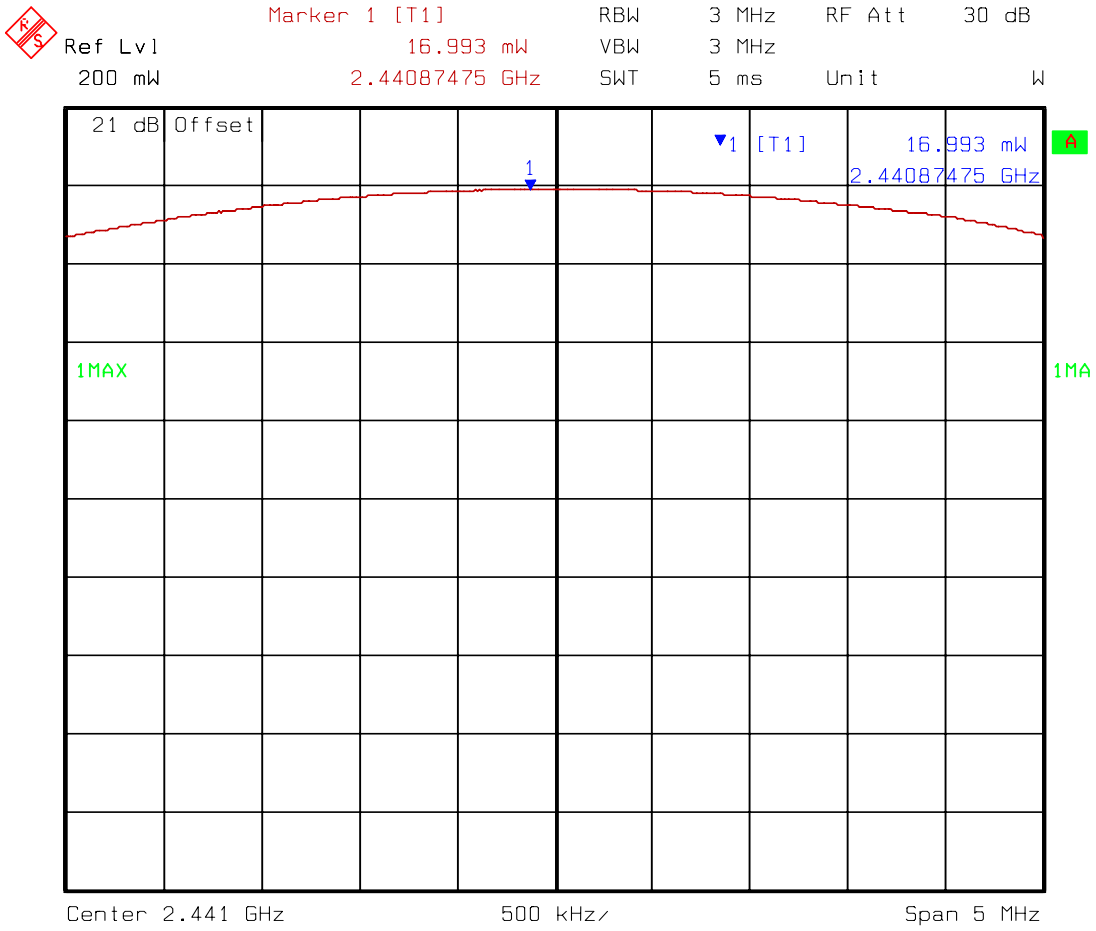
Title: Peak Output Power - Middle Channel, 110Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 10:48:35

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE006



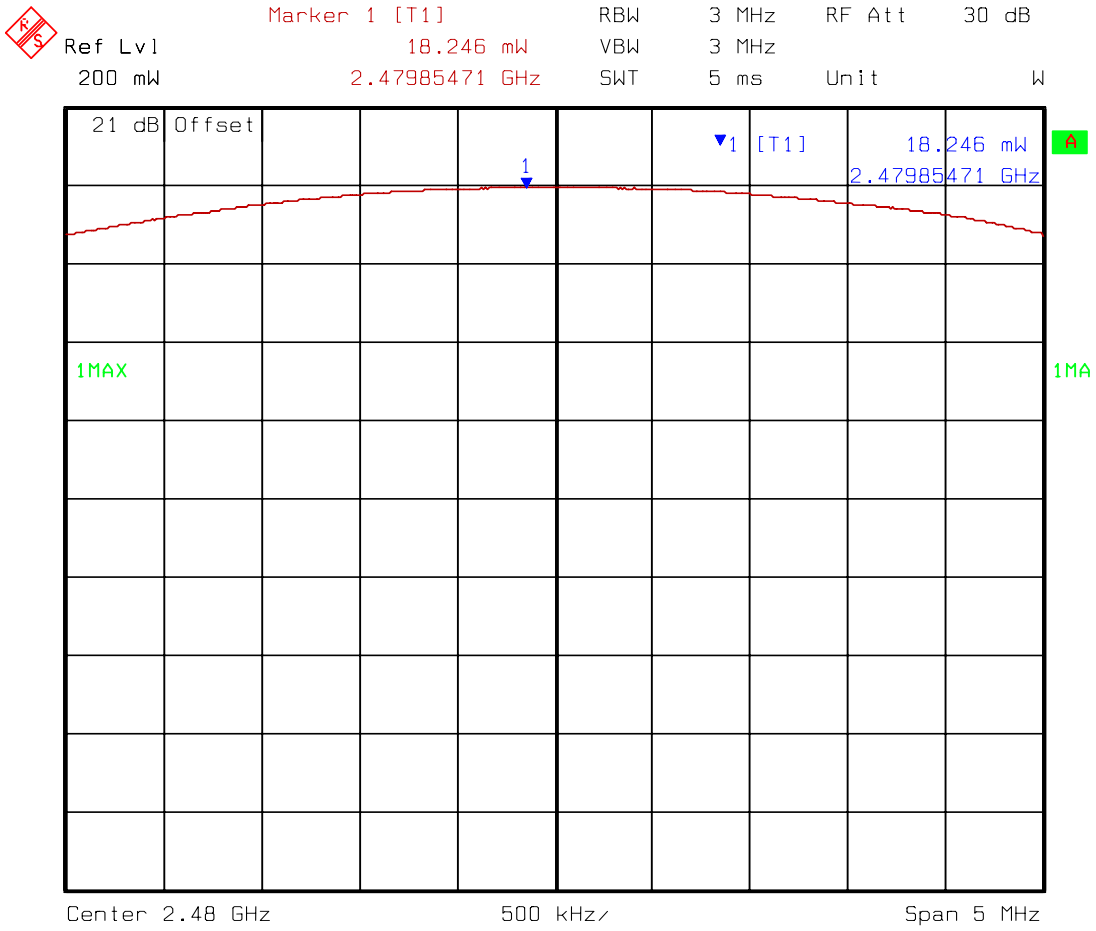
Title: Peak Output Power - Middle Channel, 126.5Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 11:02:34

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE007



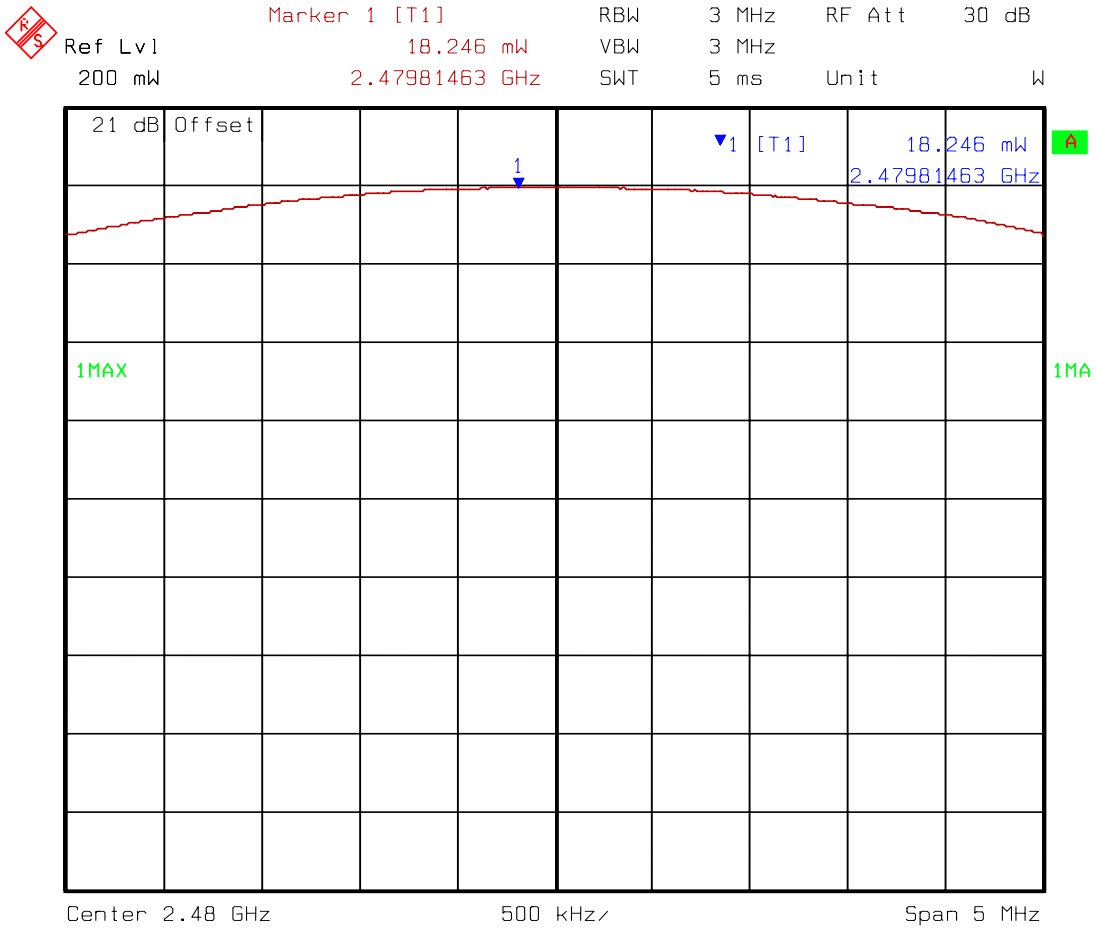
Title: Peak Output Power - Top Channel, 93.5Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 10:51:35

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE008



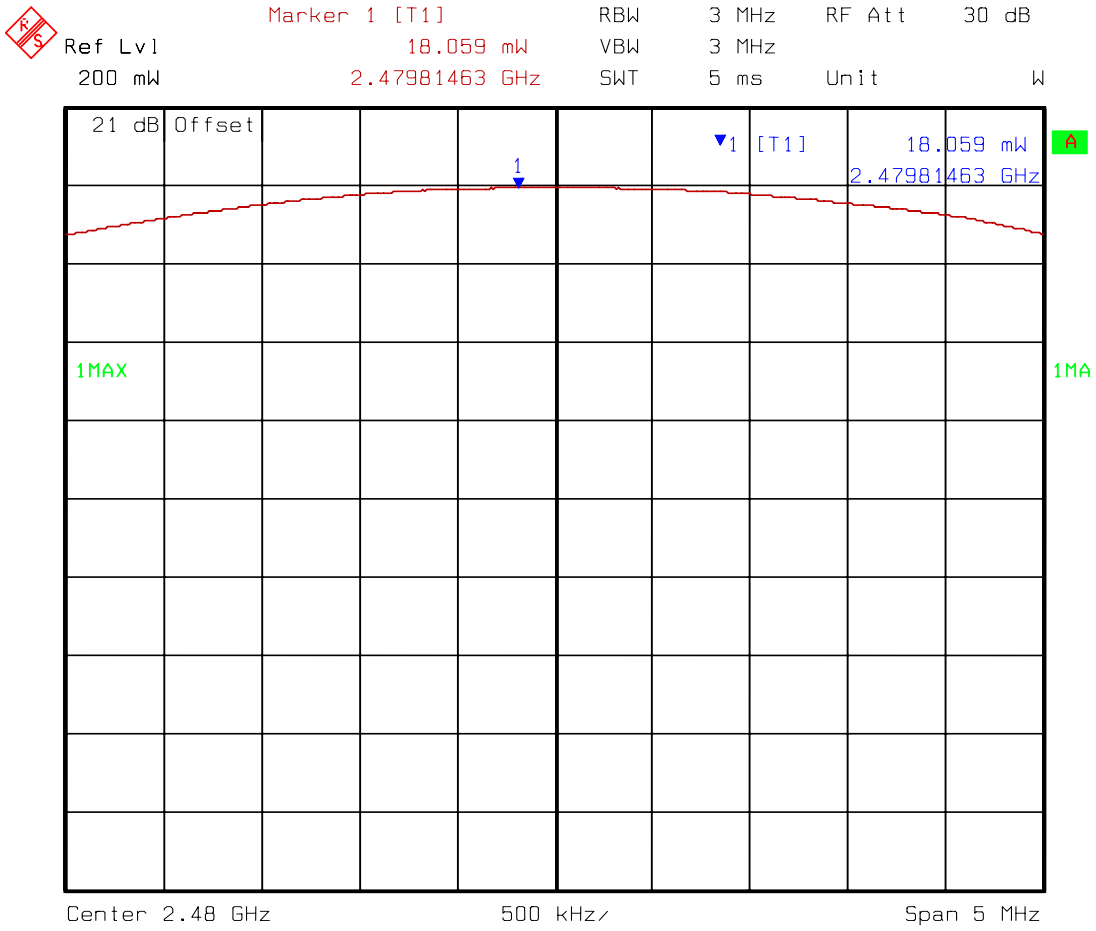
Title: Peak Output Power - Top Channel, 110Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 10:52:41

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE009



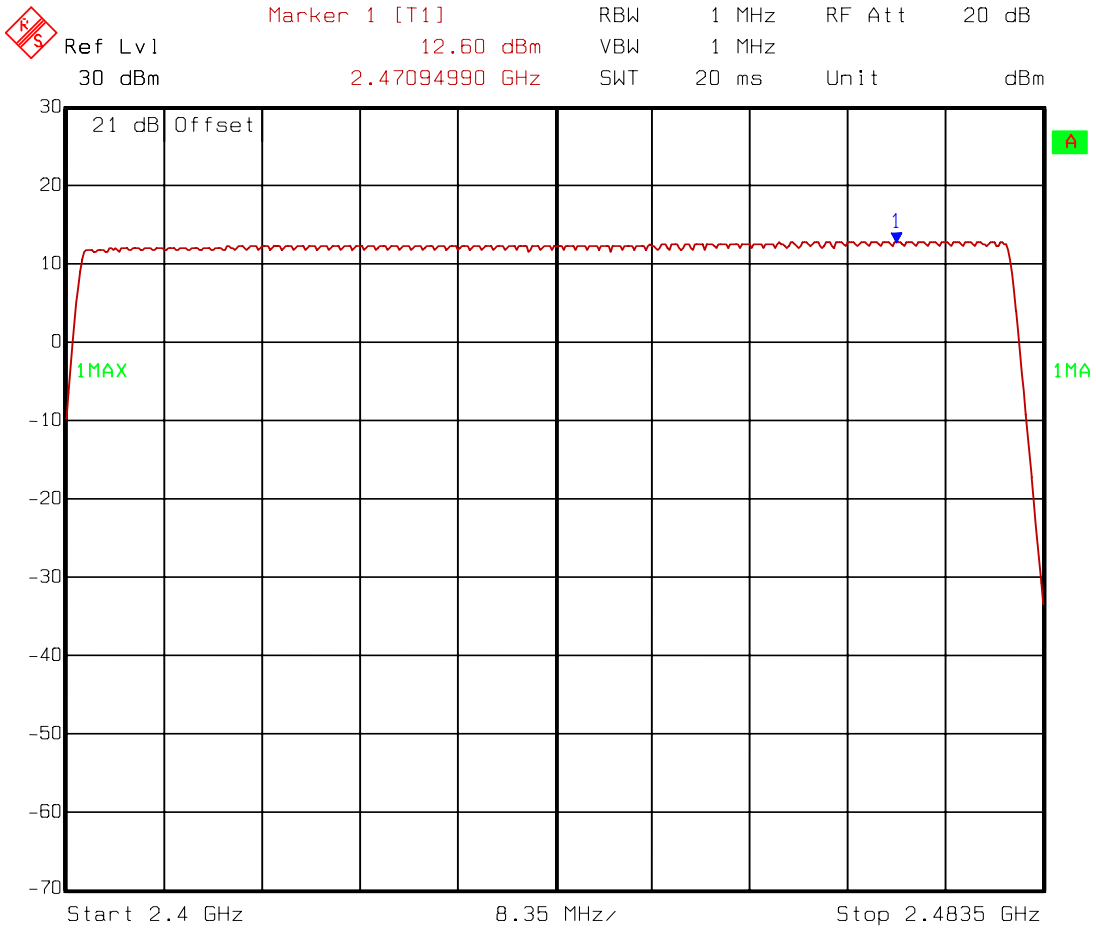
Title: Peak Output Power - Top Channel, 126.5Vac
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 10:53:43

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE010



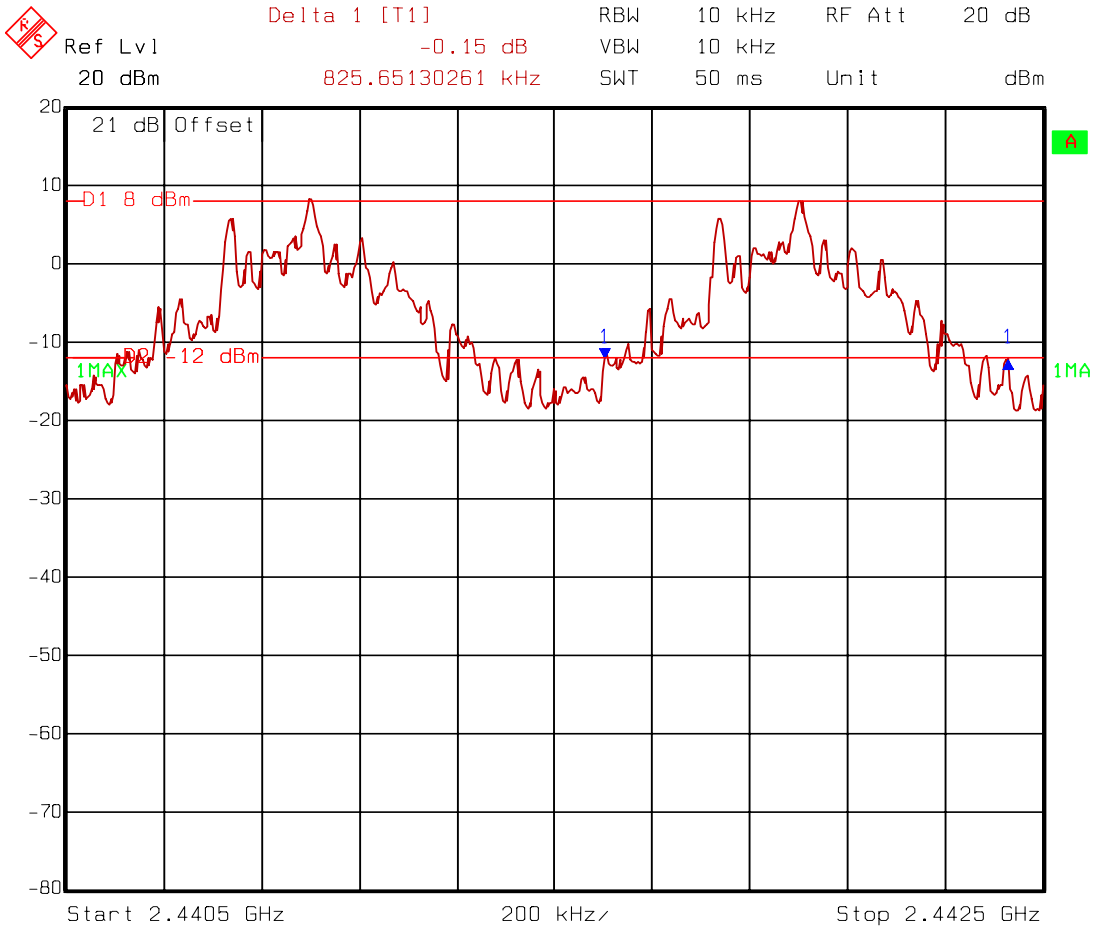
Title: Number of Hopping Frequencies - Hopping All Channels
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 13:48:32

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE011



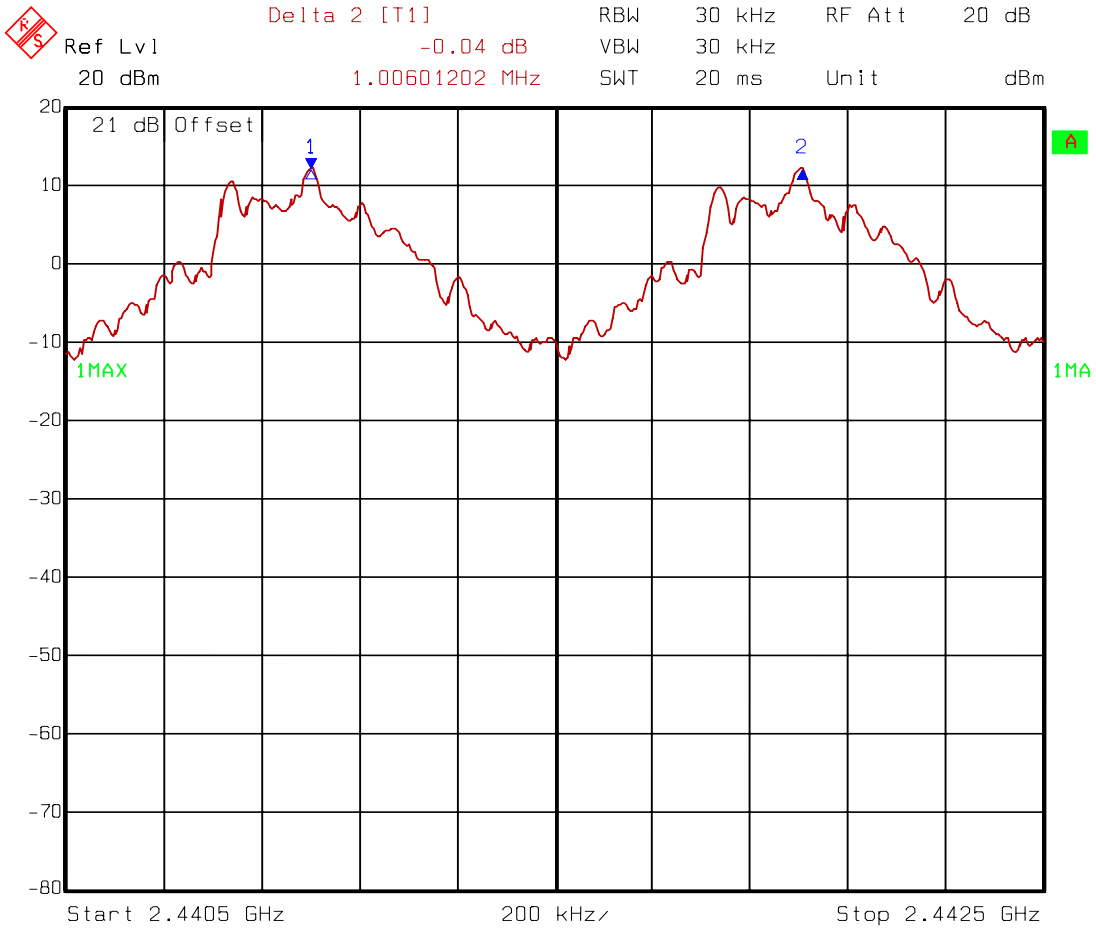
Title: 20dB Bandwidth - Hopping All Channels
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 14:53:49

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE012



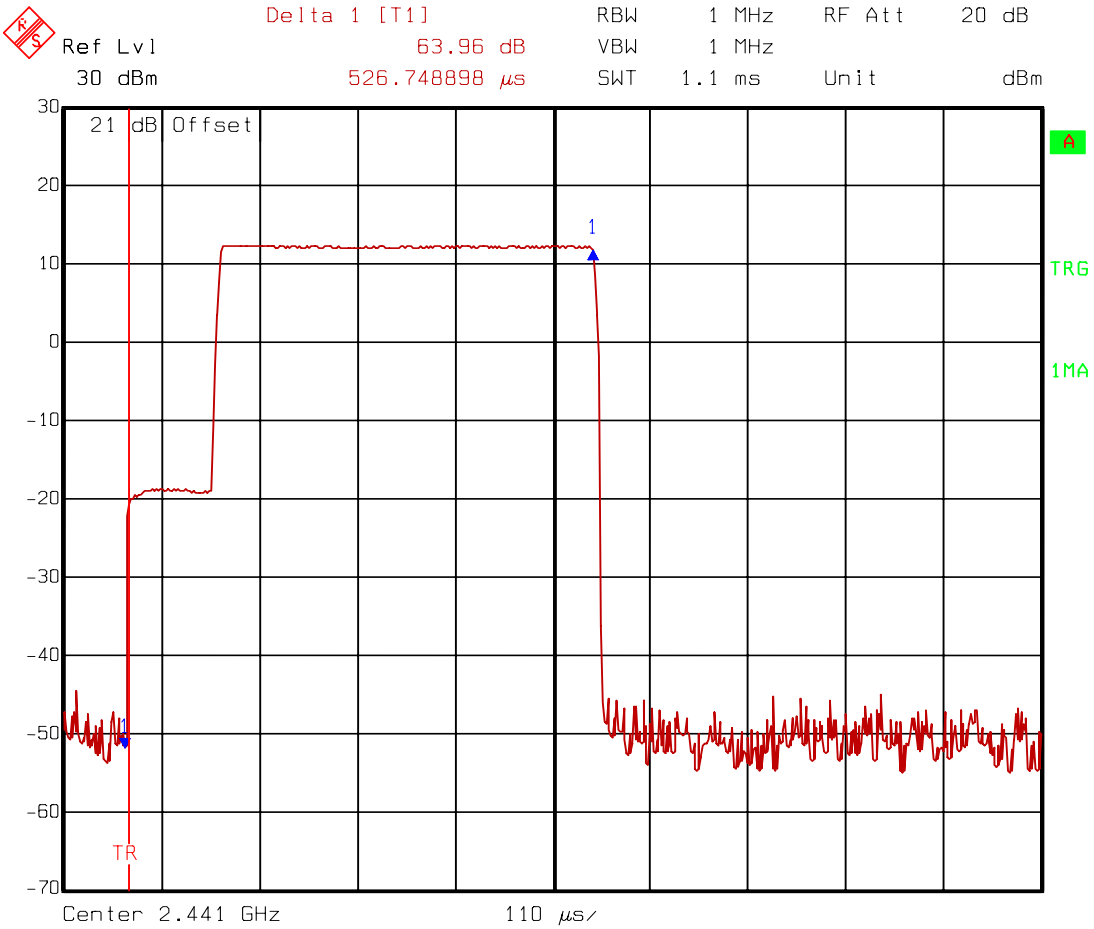
Title: Carrier Frequency Separation - Hopping All Channels
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 11:27:52

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE013



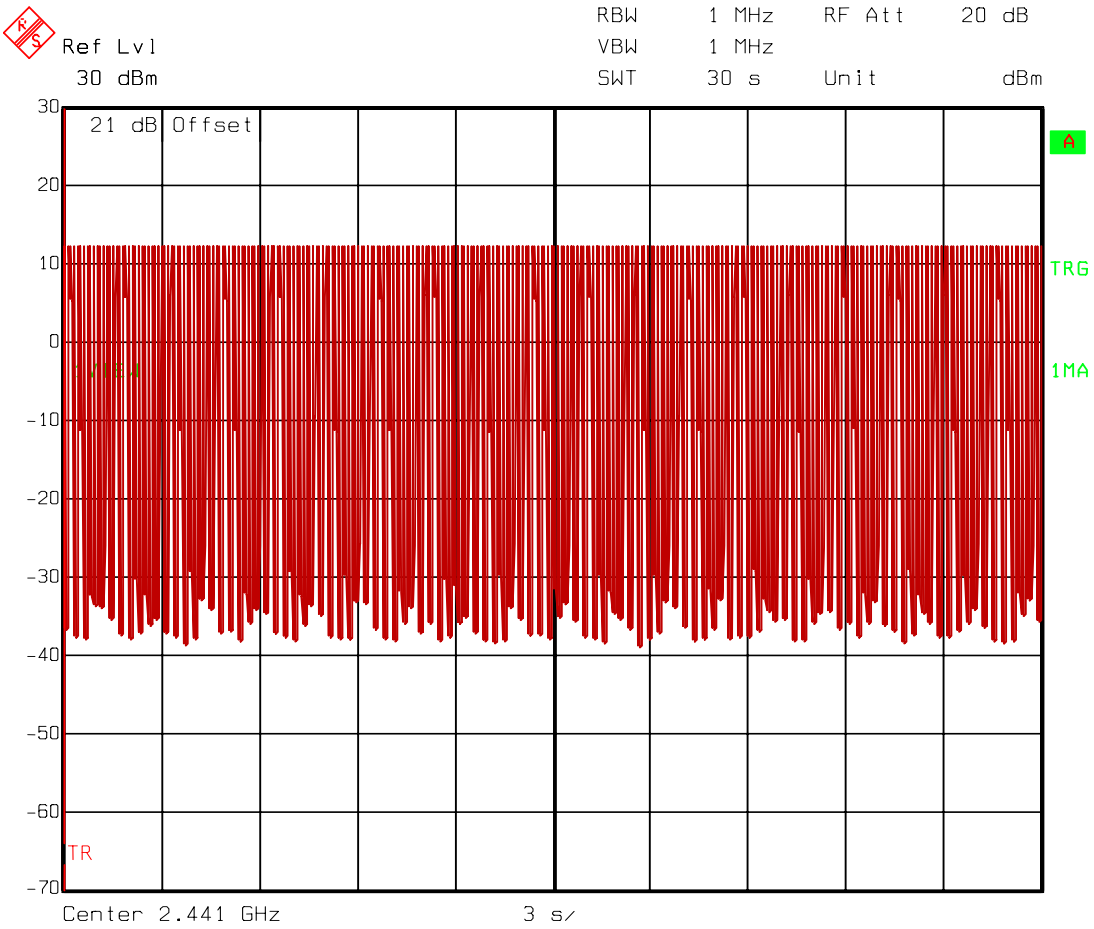
Title: Time of Occupancy (Dwell Time) - Hopping All Channels
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 13:59:03

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE014



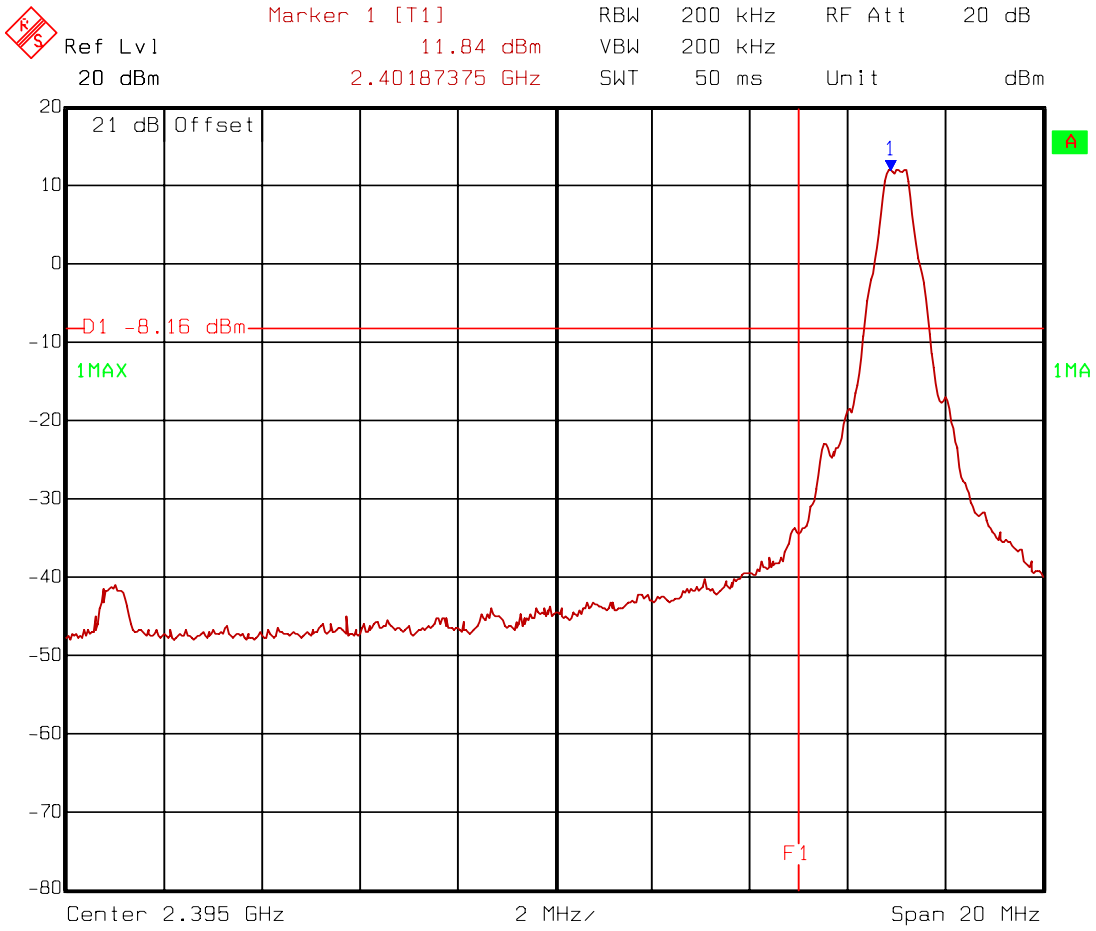
Title: Time of Occupancy 30 Second Period - Hopping All Channels
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 14:14:26

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\CE015



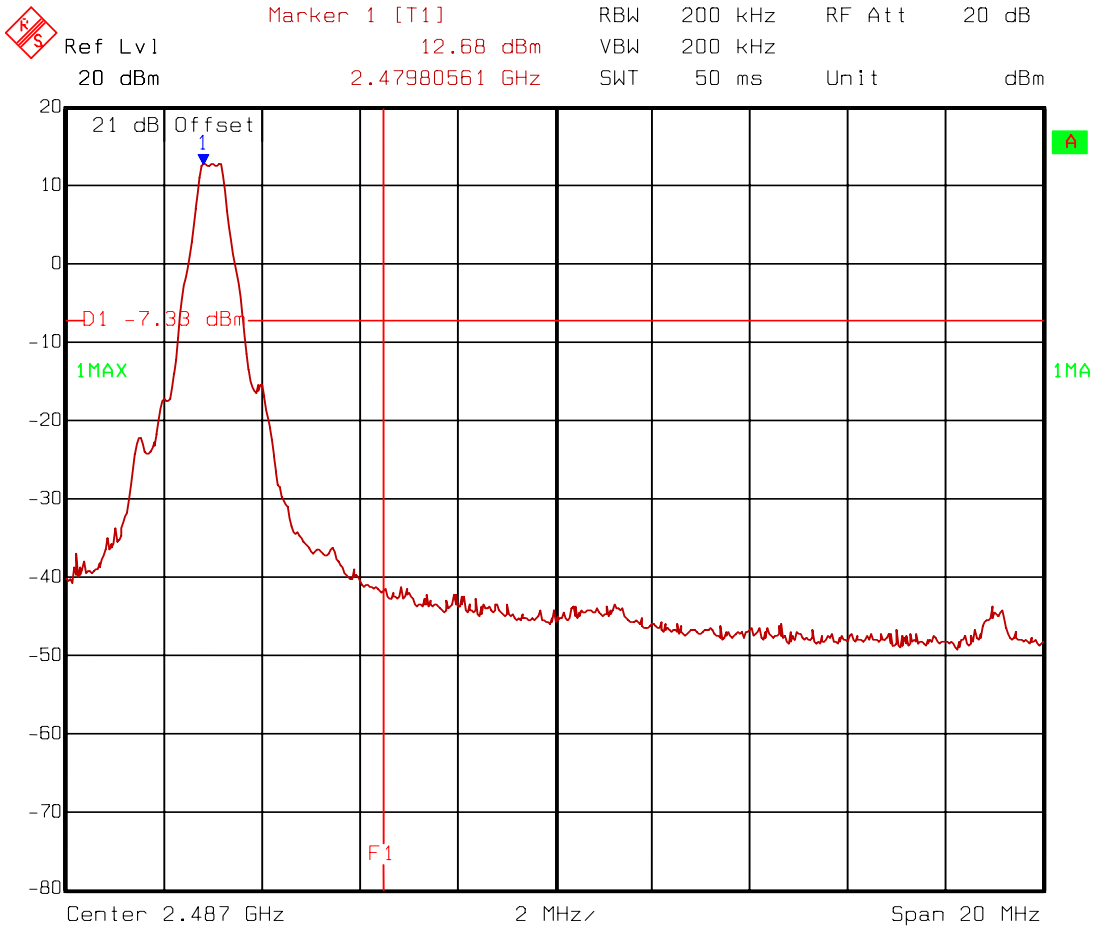
Title: Band Edge - Bottom Channel
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 15:44:49

RADIO FREQUENCY INVESTIGATION LTD. **Graphical Section**
S.No: RFI/EMCB1/RP44012JD09A

Operations Department

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

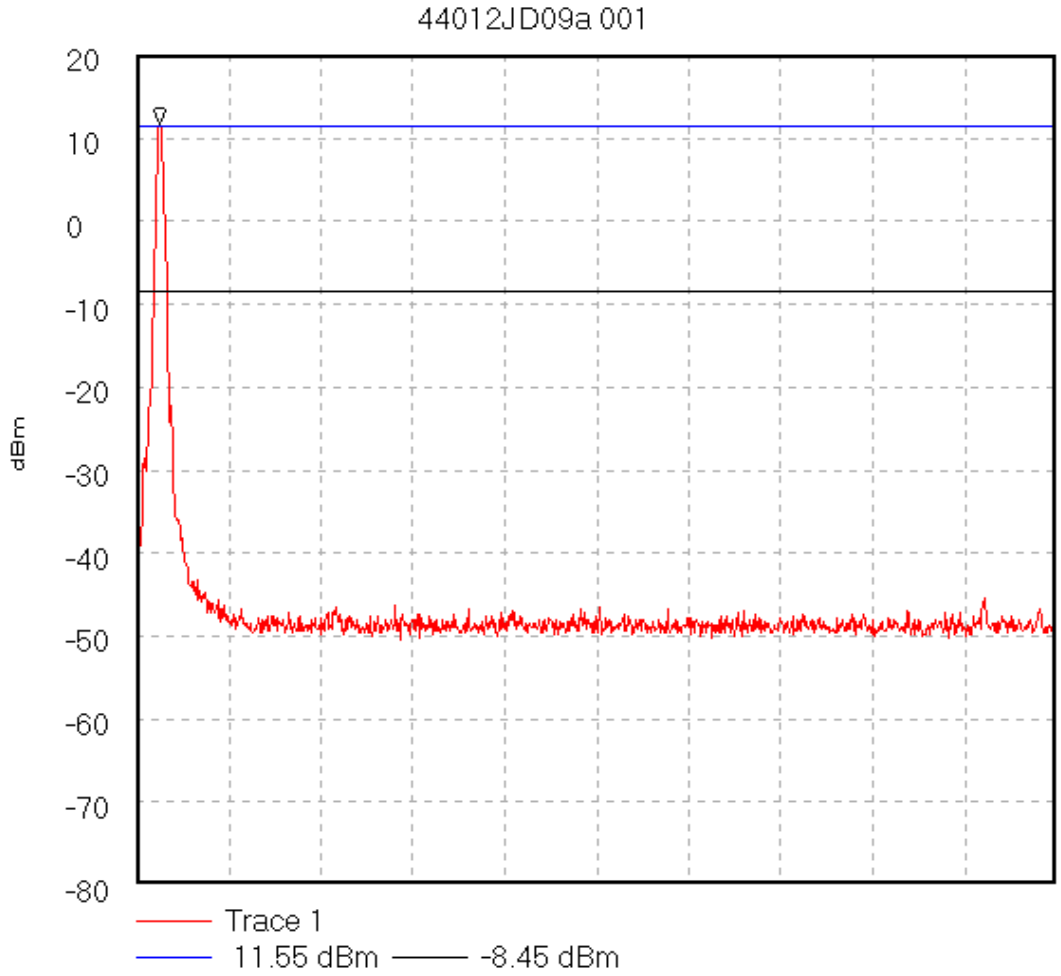
GPH\44012JD09\CE016



Title: Band Edge - Top Channel
Comment A: Testing of Brain Boxes BL-510\642 to FCC Part 15.247
Date: 23.OCT.2002 15:49:59

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

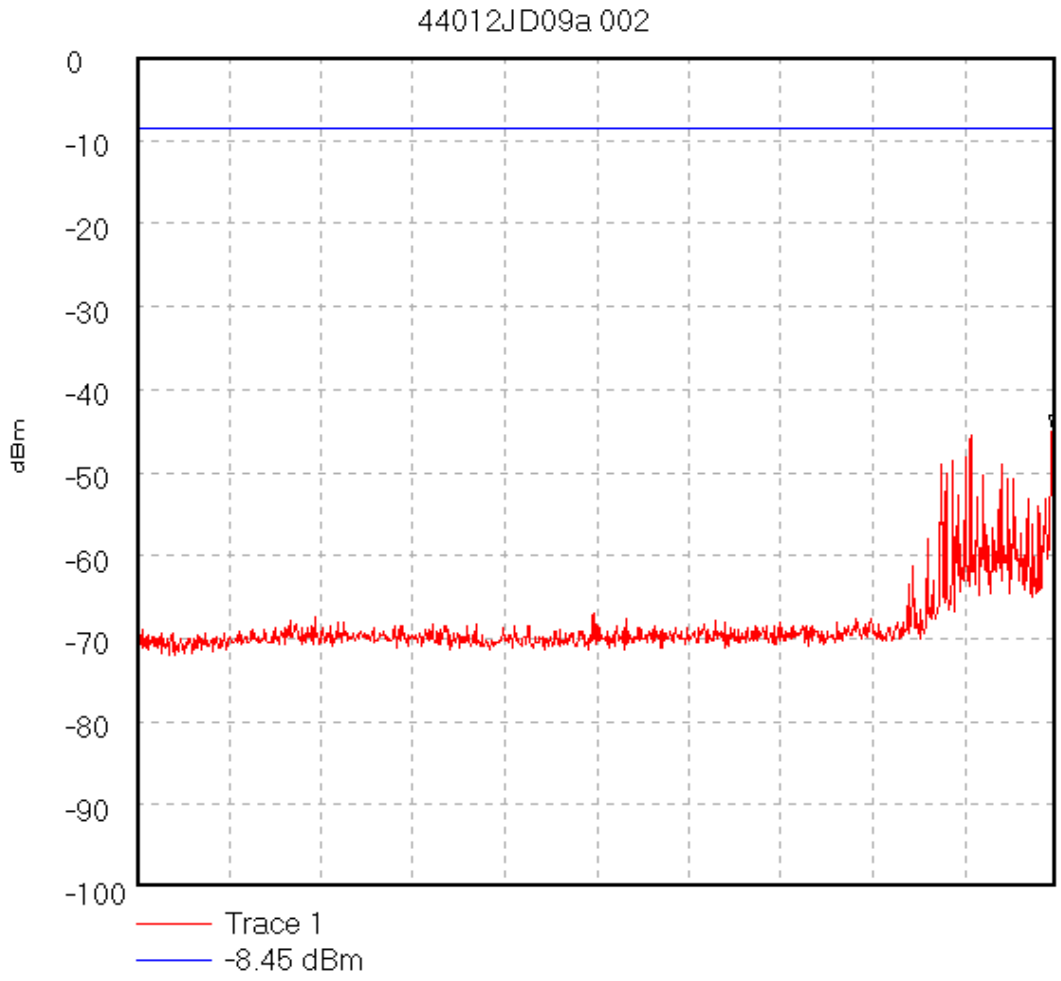
GPH\44012JD09a\001
Testing for Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Bottom Channel



Start 2.4 GHz; Stop 2.4835 GHz
Ref 20 dBm; Ref Offset 21.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 10 dB; Swp 40.0 mS
Peak 2.402041 GHz, 11.73 dBm
Display Line: 11.55 dBm; -8.45 dBm; ; Limit Test Passed
04/01/80 00:12:32

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

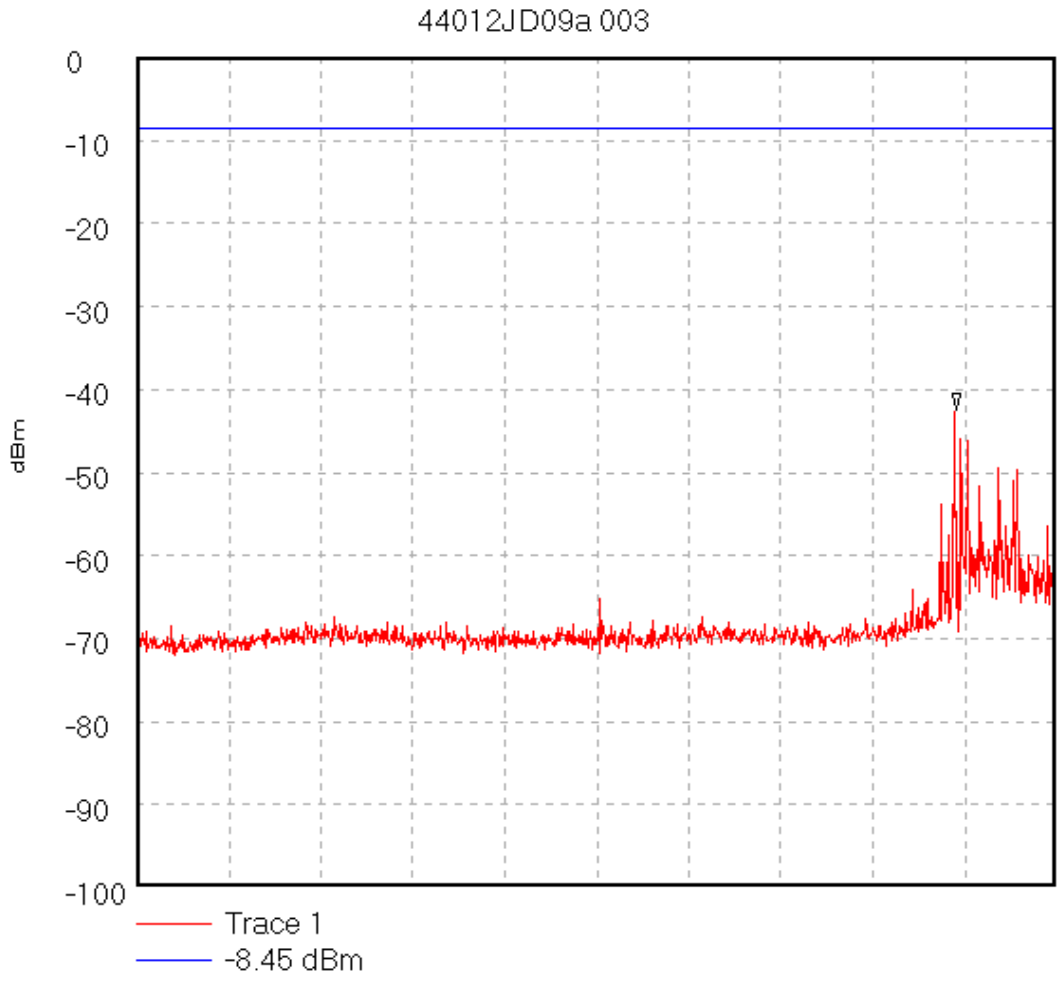
GPH\44012JD09a\002
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Bottom Channel



Start 30.0 MHz; Stop 2.4 GHz
Ref 0 dBm; Ref Offset 21.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 720.0 mS
Peak 2.389467 GHz, -45.17 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:32:58

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

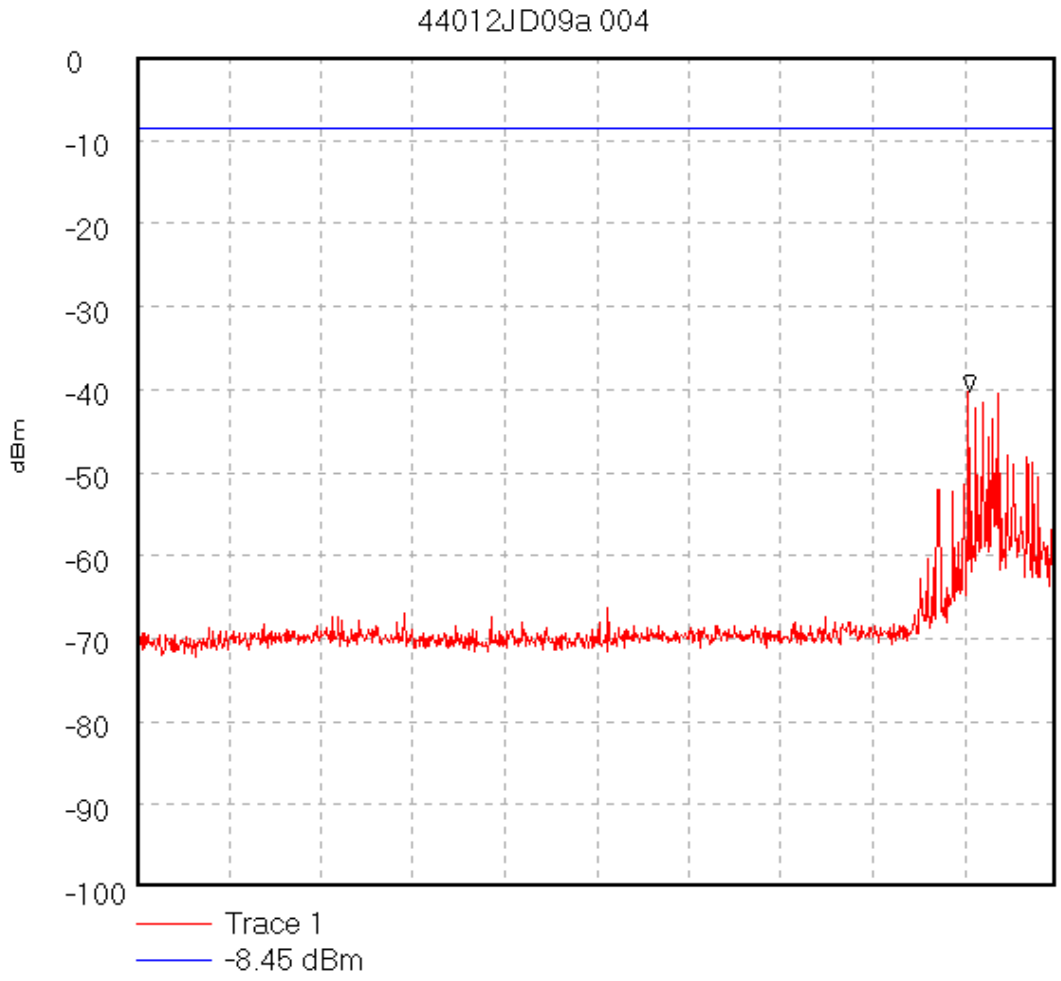
GPH\44012JD09a\003
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Middle Channel



Start 30.0 MHz; Stop 2.4 GHz
Ref 0 dBm; Ref Offset 21.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 720.0 mS
Peak 2.1393 GHz, -42.58 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:34:26

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09a\004
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Top Channel

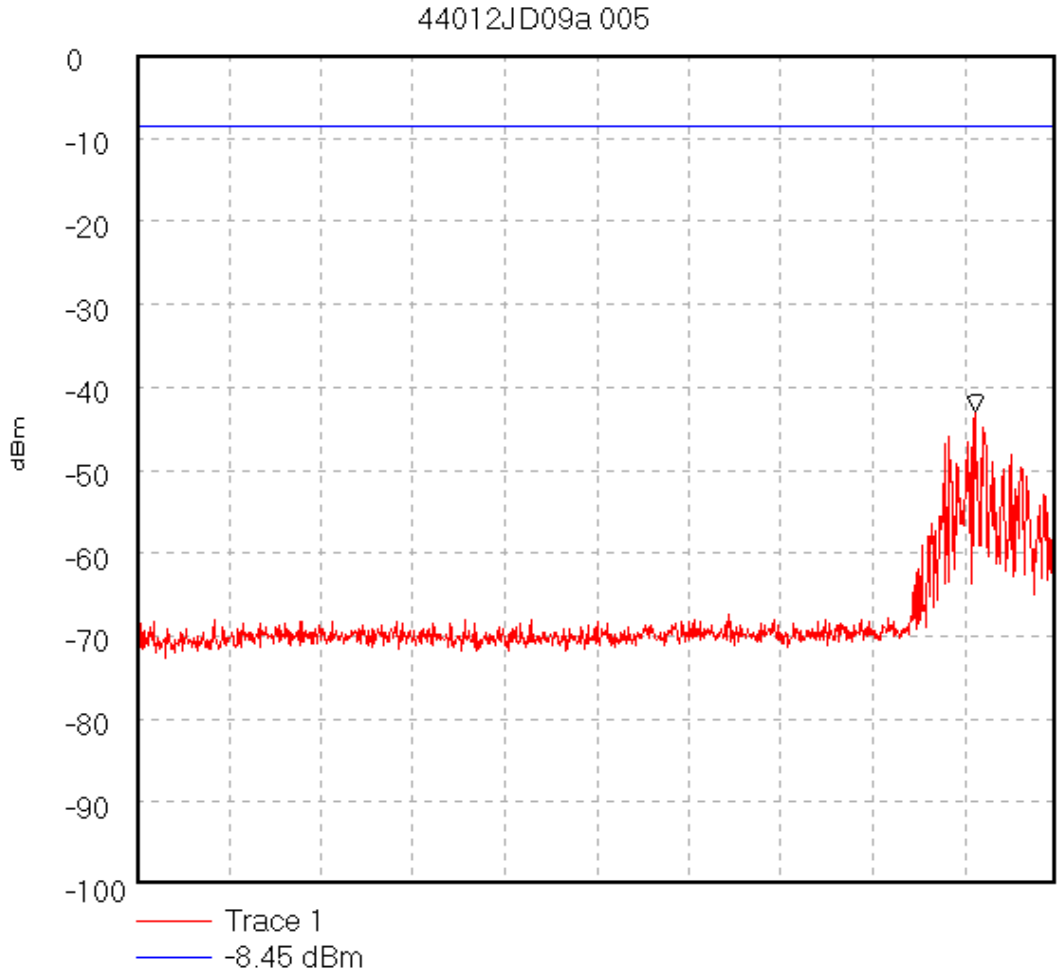


Start 30.0 MHz; Stop 2.4 GHz
Ref 0 dBm; Ref Offset 21.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 720.0 mS
Peak 2.173533 GHz, -40.24 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:35:56

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09a\005

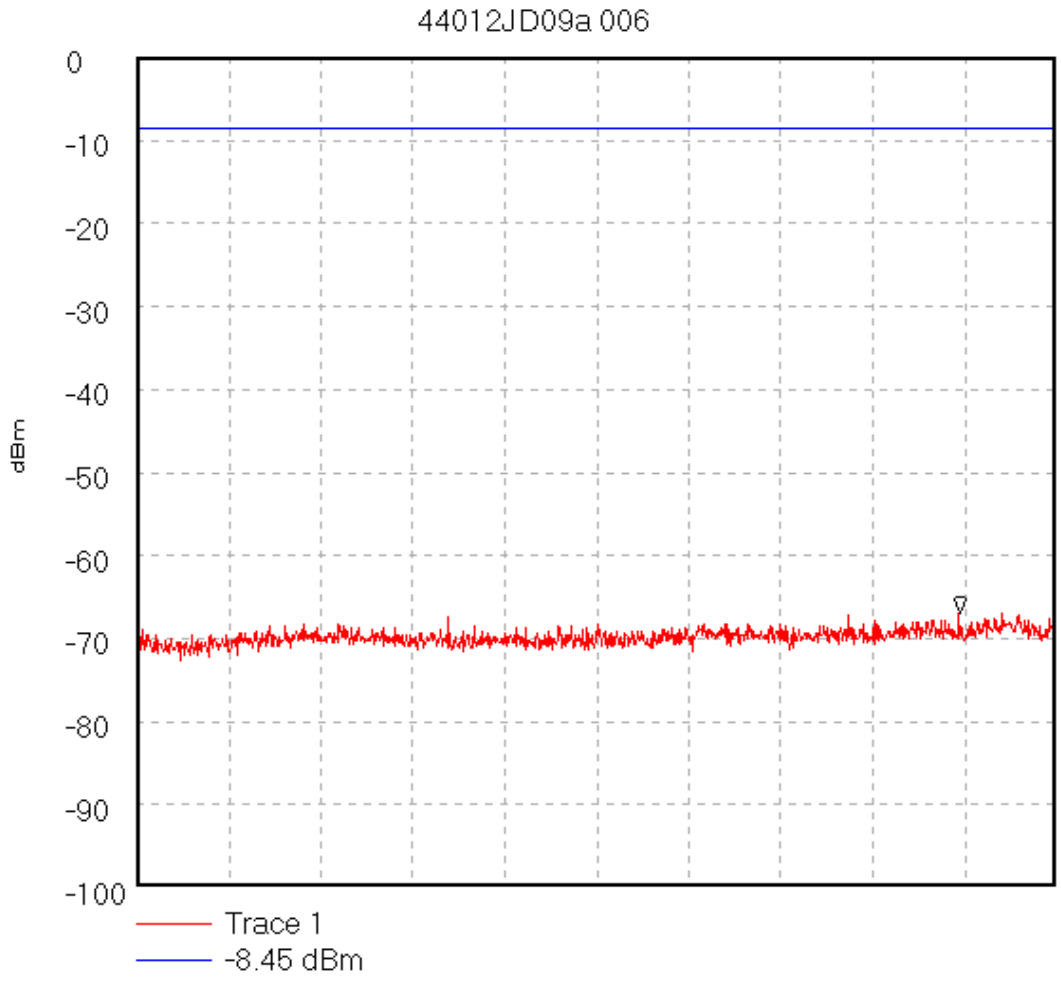
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Hopping All Channels



Start 30.0 MHz; Stop 2.4 GHz
Ref 0 dBm; Ref Offset 21.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 720.0 mS
Peak 2.191967 GHz, -42.96 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:37:02

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

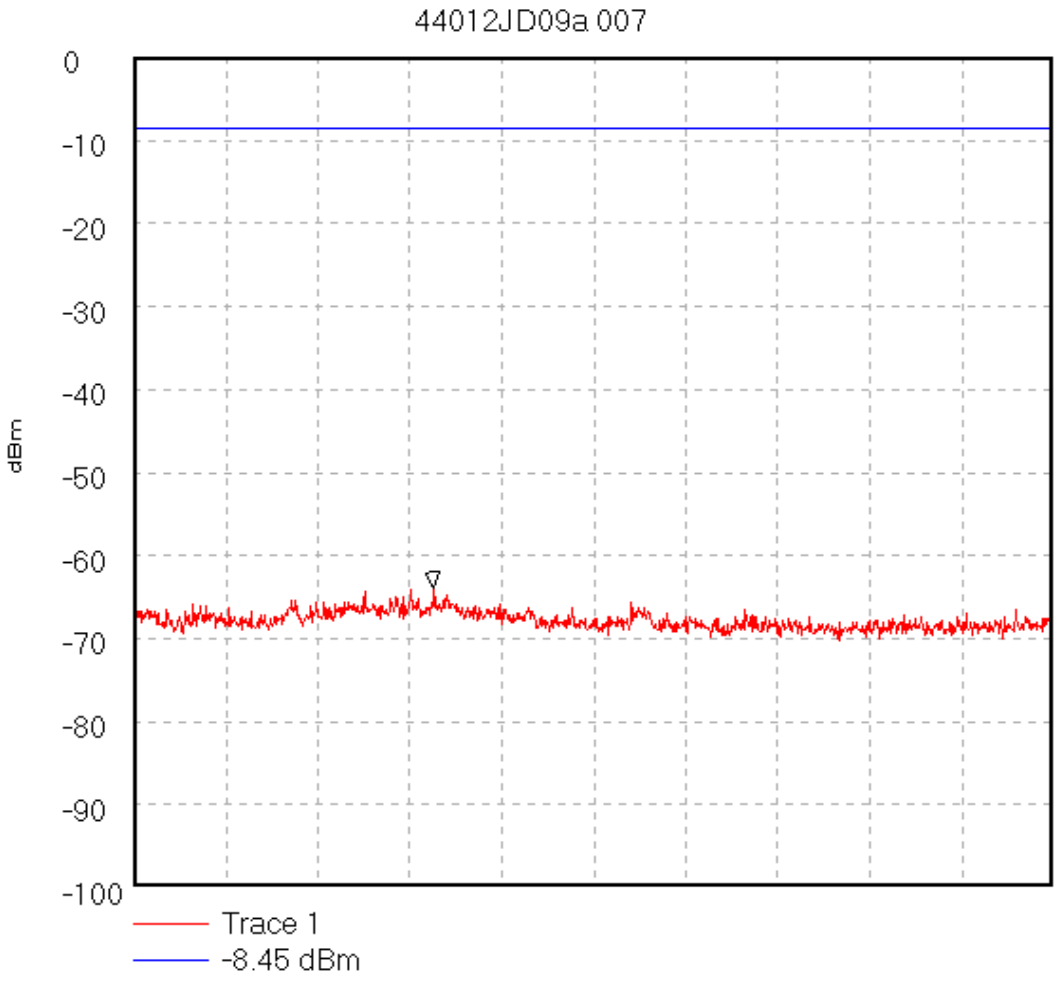
GPH\44012JD09a\006
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Receive Mode



Start 30.0 MHz; Stop 2.4 GHz
Ref 0 dBm; Ref Offset 21.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 720.0 mS
Peak 2.149833 GHz, -66.96 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:39:26

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

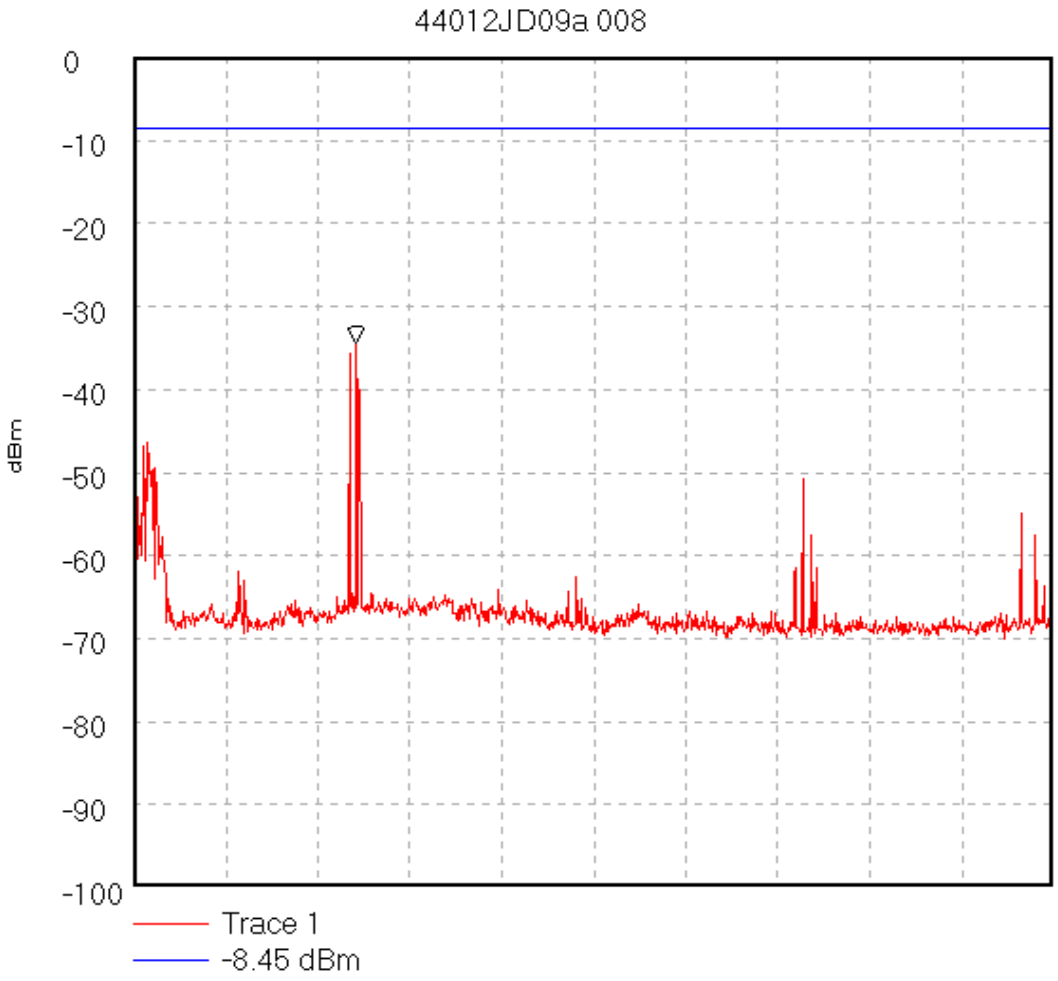
GPH\44012JD09a\007
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Receive Mode



Start 2.4835 GHz; Stop 12.5 GHz
Ref 0 dBm; Ref Offset 22.1 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 3.2 S
Peak 5.755557 GHz, -64.01 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:49:00

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

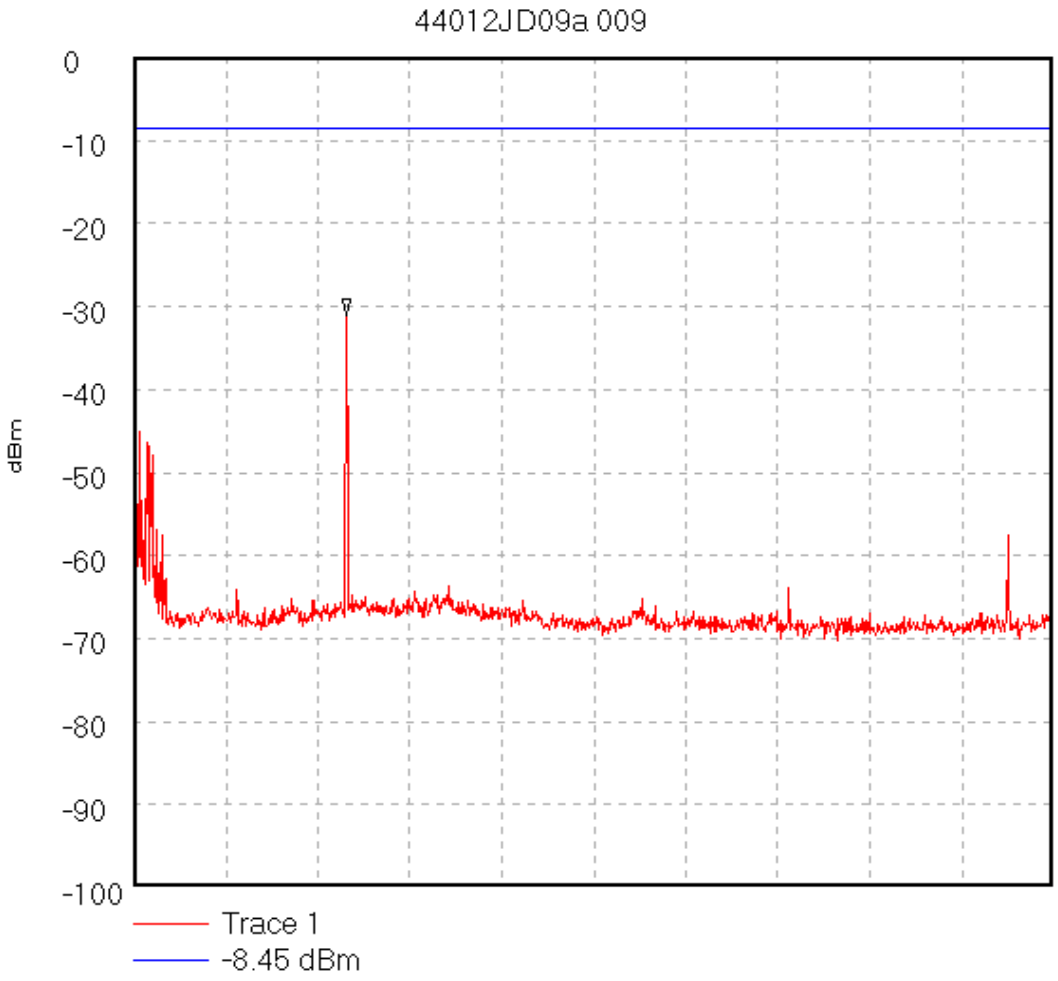
GPH\44012JD09a\008
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Hopping All Channels



Start 2.4835 GHz; Stop 12.5 GHz
Ref 0 dBm; Ref Offset 22.1 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 3.2 S
Peak 4.909719 GHz, -34.33 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:51:59

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

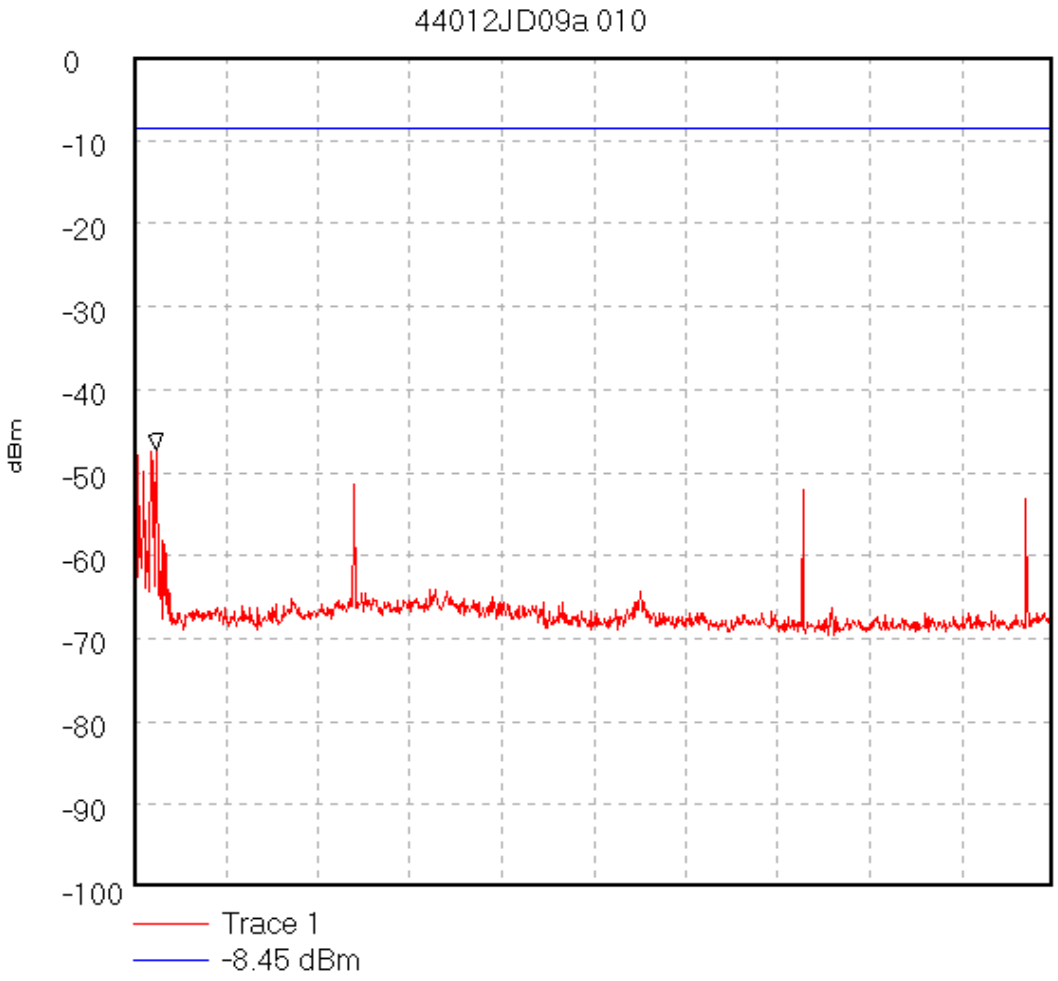
GPH\44012JD09a\009
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Bottom Channel



Start 2.4835 GHz; Stop 12.5 GHz
Ref 0 dBm; Ref Offset 22.1 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 3.2 S
Peak 4.798424 GHz, -31.18 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:53:31

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

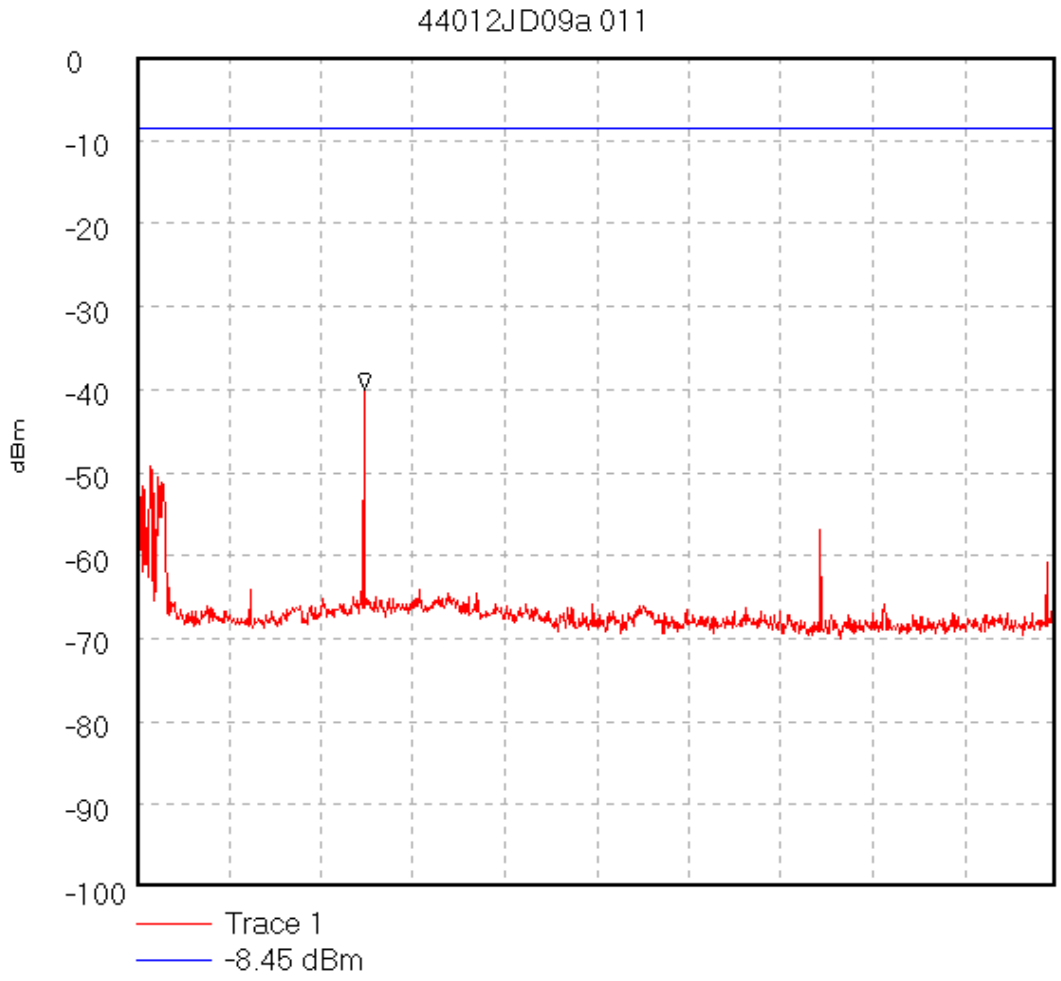
GPH\44012JD09a\010
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Middle Channel



Start 2.4835 GHz; Stop 12.5 GHz
Ref 0 dBm; Ref Offset 22.1 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 3.2 S
Peak 2.739477 GHz, -47.35 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:58:16

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

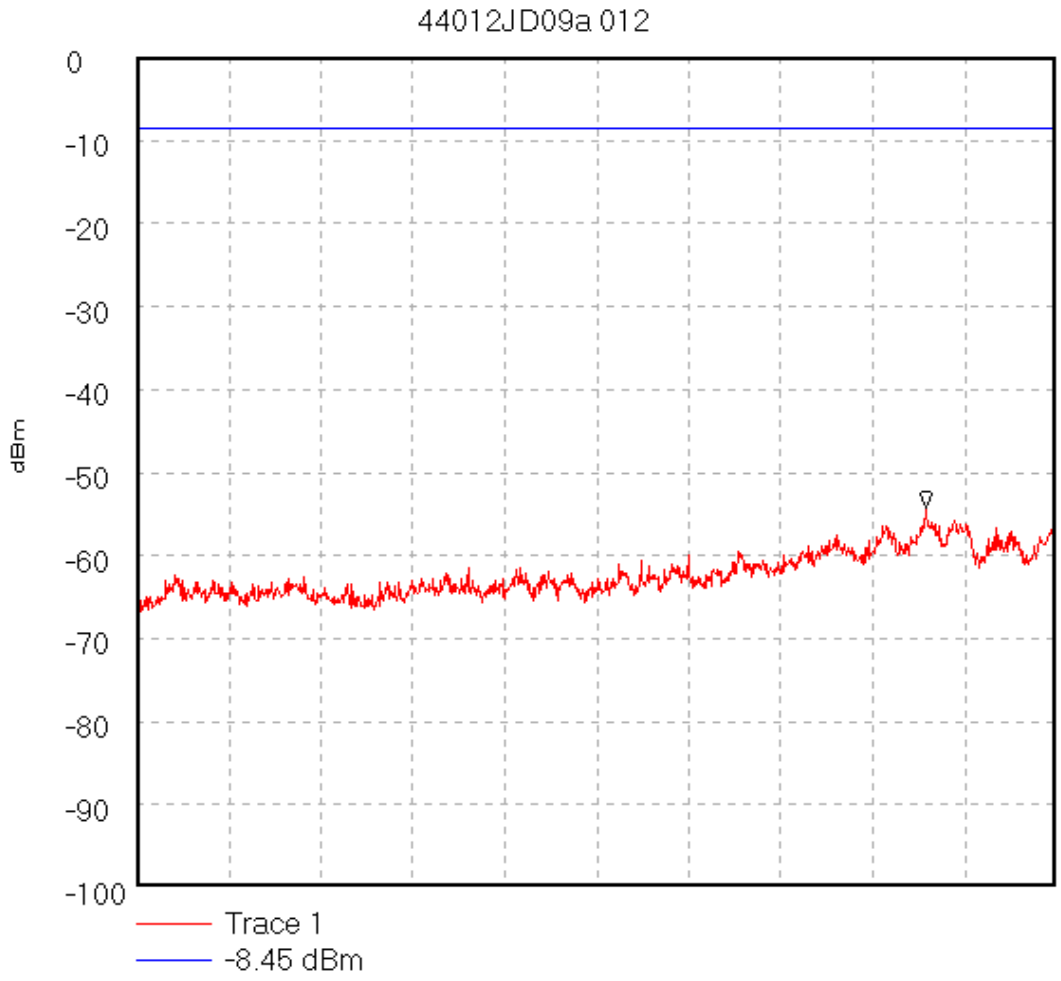
GPH\44012JD09a\011
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Top Channel



Start 2.4835 GHz; Stop 12.5 GHz
Ref 0 dBm; Ref Offset 22.1 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 3.2 S
Peak 4.954237 GHz, -40.04 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 00:59:25

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

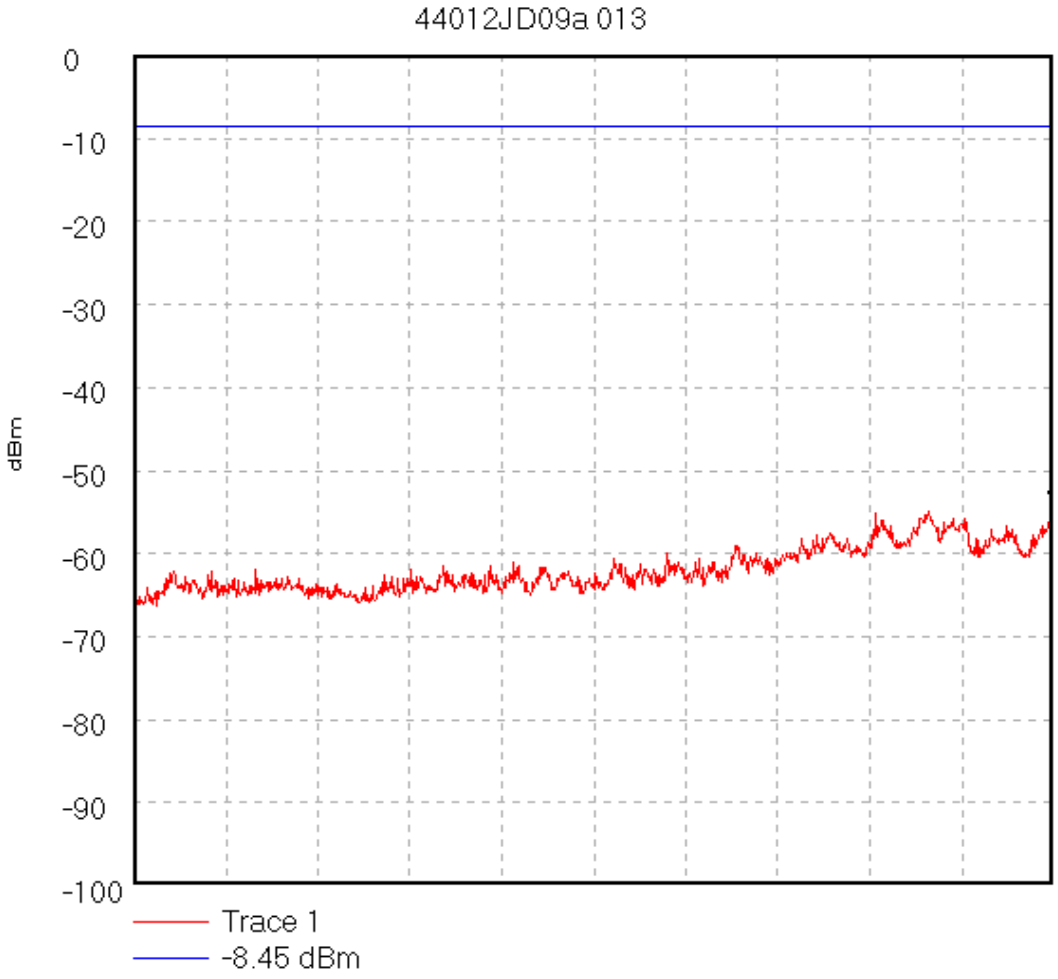
GPH\44012JD09a\012
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Top Channel



Start 12.5 GHz; Stop 26.5 GHz
Ref 0 dBm; Ref Offset 26.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 4.2 S
Peak 24.508889 GHz, -54.34 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 01:02:06

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

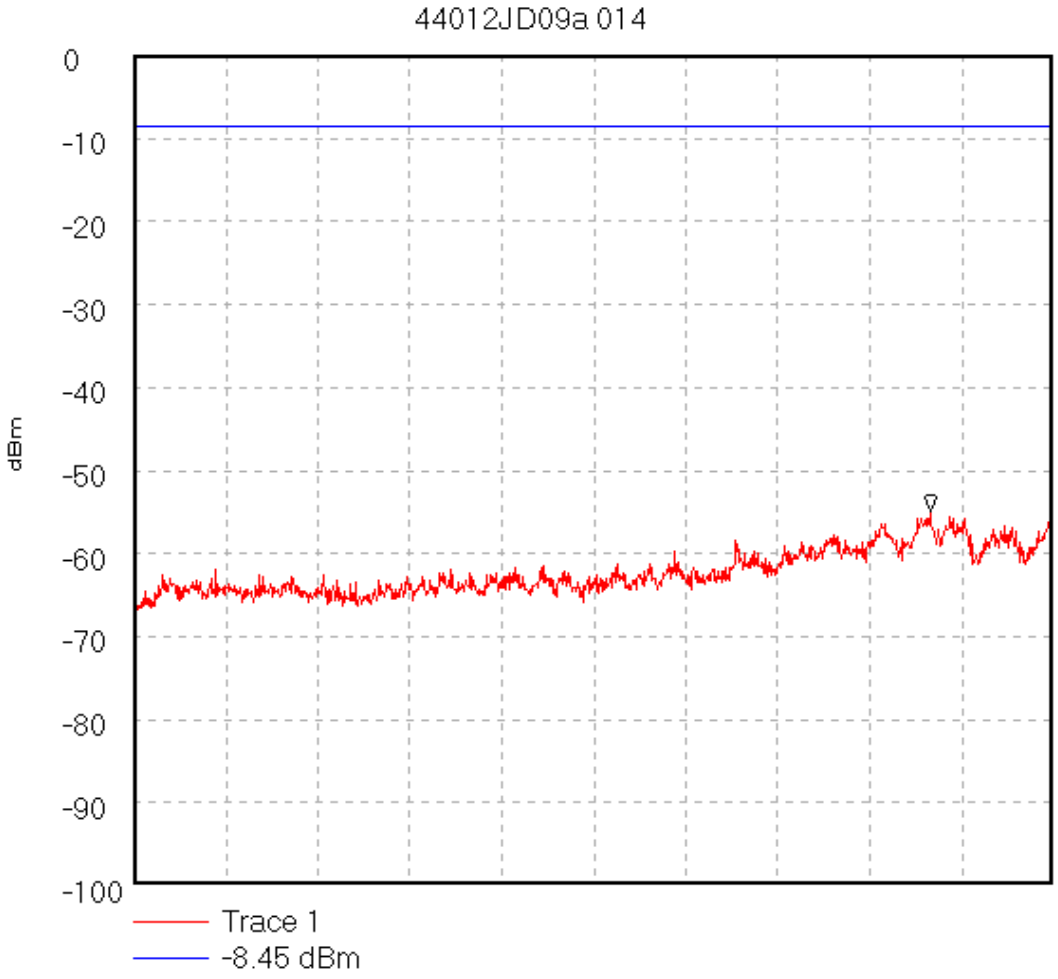
GPH\44012JD09a\013
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Middle Channel



Start 12.5 GHz; Stop 26.5 GHz
Ref 0 dBm; Ref Offset 26.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 4.2 S
Peak 26.5 GHz, -54.34 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 01:03:34

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

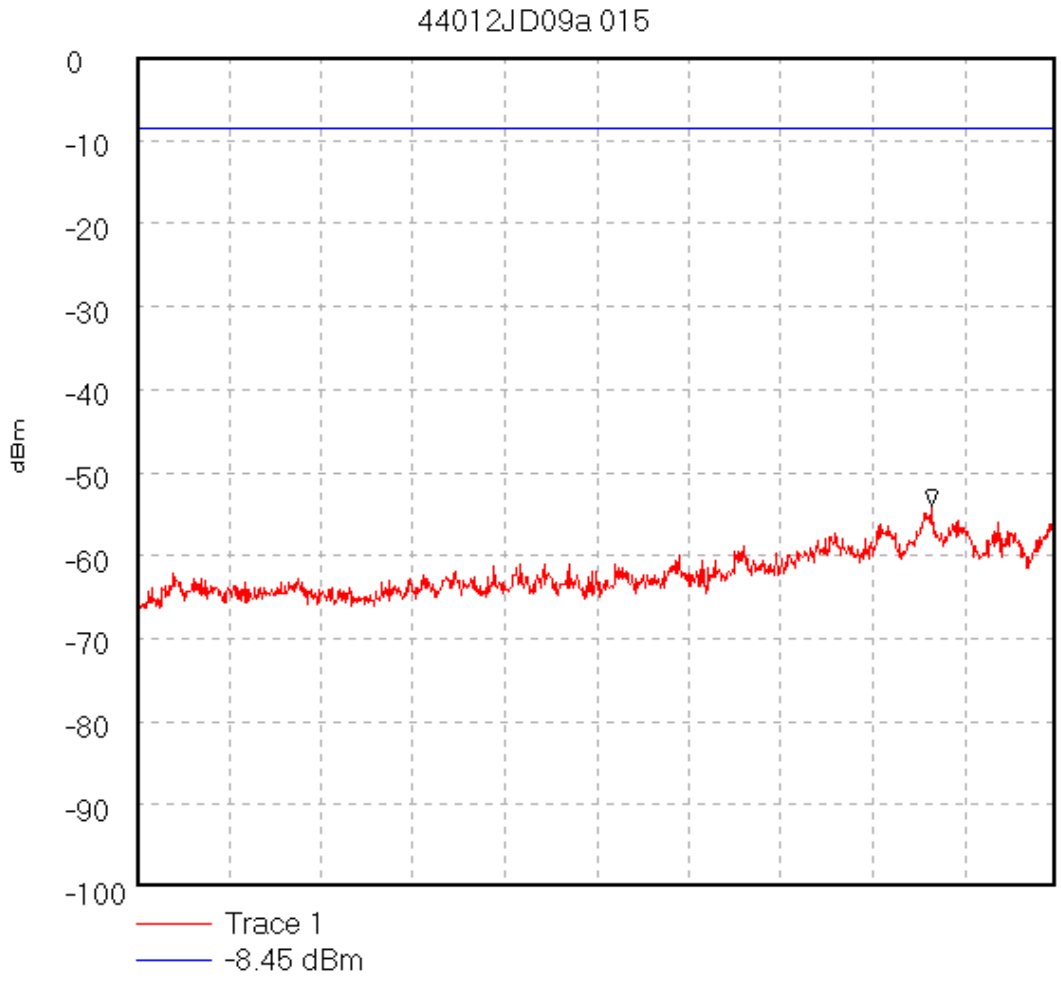
GPH\44012JD09a\014
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Bottom Channel



Start 12.5 GHz; Stop 26.5 GHz
Ref 0 dBm; Ref Offset 26.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 4.2 S
Peak 24.633333 GHz, -54.85 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 01:04:43

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

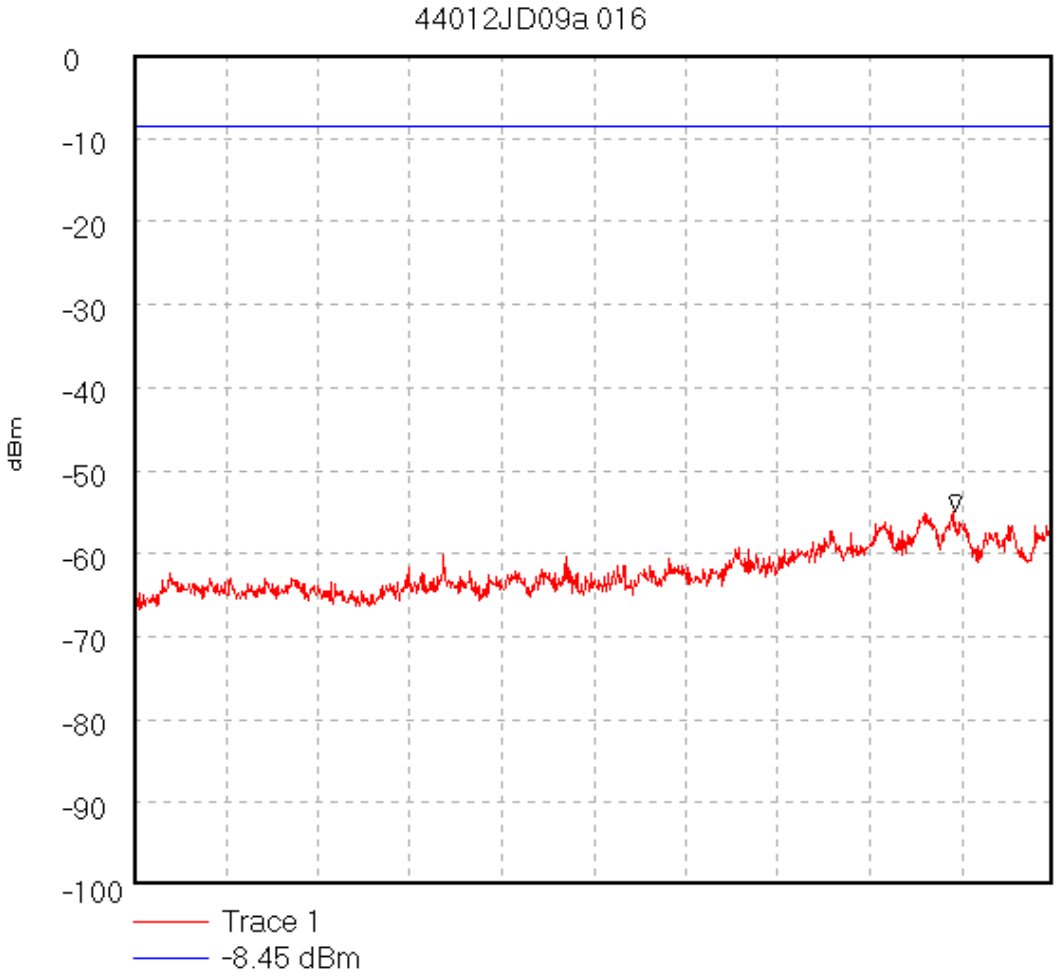
GPH\44012JD09a\015
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
conducted Spurious Emissions - Hopping All Channels



Start 12.5 GHz; Stop 26.5 GHz
Ref 0 dBm; Ref Offset 26.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 4.2 S
Peak 24.602222 GHz, -54.11 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 01:05:46

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

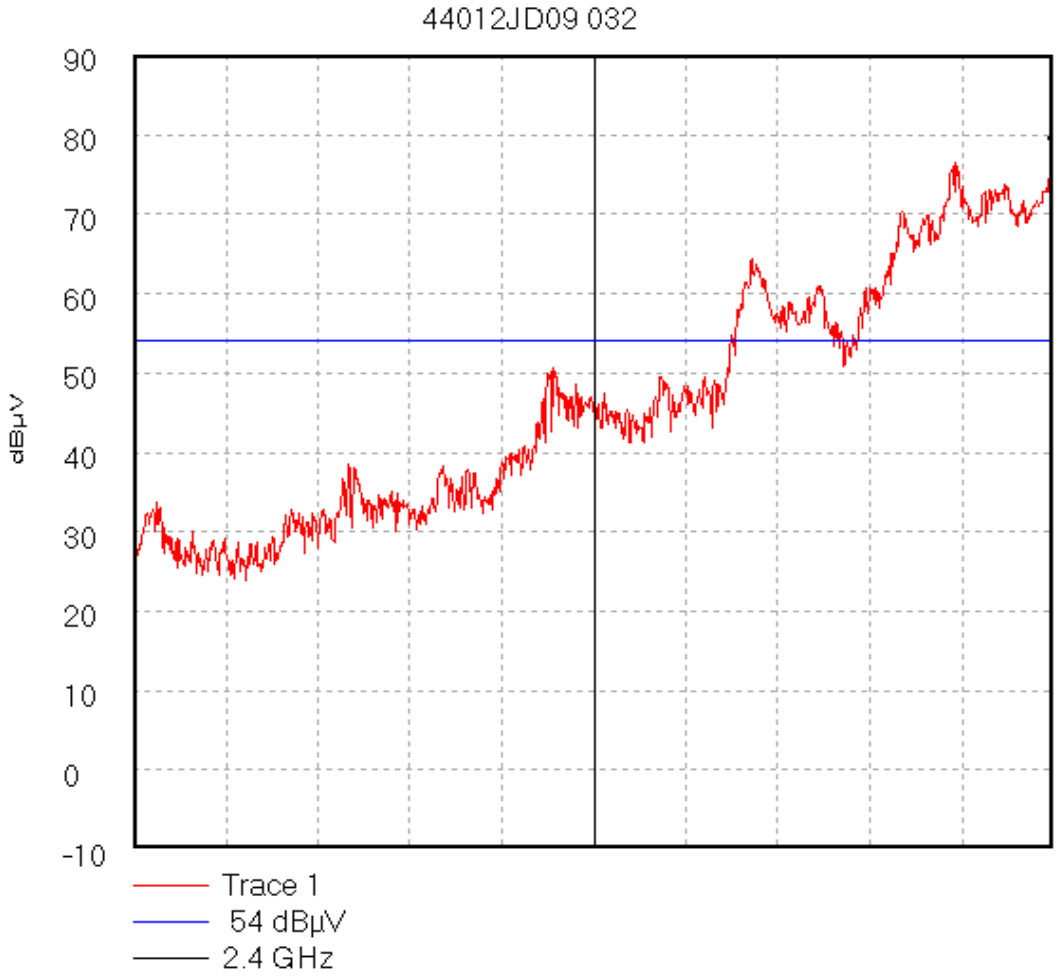
GPH\44012JD09a\016
Testing of Brain Boxes BL-510/642. FCC Part 15.247.
Conducted Spurious Emissions - Receive Mode



Start 12.5 GHz; Stop 26.5 GHz
Ref 0 dBm; Ref Offset 26.0 dB; 10 dB/div
RBW 100.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 4.2 S
Peak 24.991111 GHz, -54.9 dBm
Display Line: -8.45 dBm; ; Limit Test Passed
04/01/80 01:11:07

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\032
Radiated Emissions testing for Brain Boxes.
TX Hopping - Bottom Channel - Band Edge

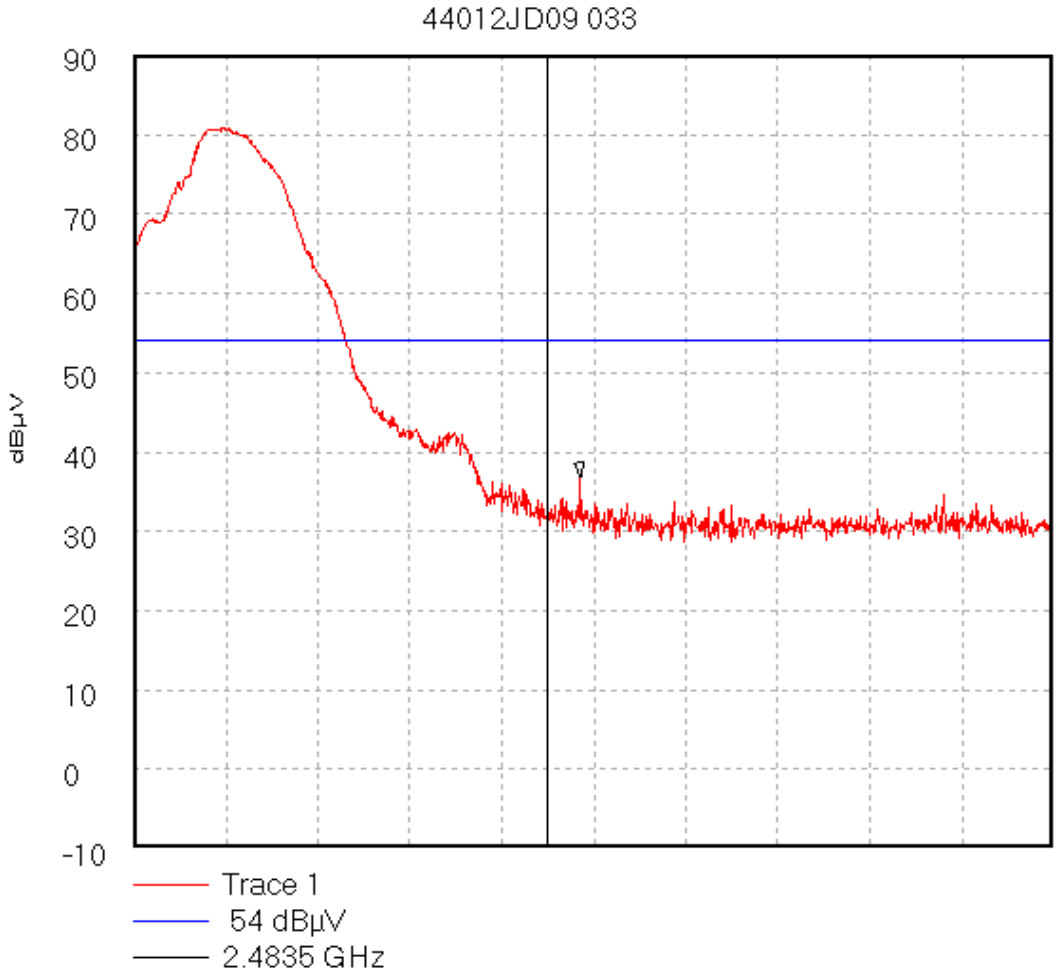


Start 2.3985 GHz; Stop 2.4015 GHz
Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 30.0 kHz; VBW 30.0 kHz; Att 0 dB; Swp 20.0 mS
Marker 2.4015 GHz, 77.87 dBµV
Display Line: 54 dBµV;
10/15/02 5:03:06 PM

Test Of: **Brain Boxes Ltd.**
BL-510
To: **F.C.C. Part 15 Subpart C: 2001 (Intentional Radiators) Section 15.247**

GPH\44012JD09\033

Radiated Emissions testing for Brain Boxes
TX Hopping - Top Channel - Band Edge



Start 2.479 GHz; Stop 2.489 GHz
Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div
RBW 300.0 kHz; VBW 300.0 kHz; Att 0 dB; Swp 20.0 mS
Marker 2.483856 GHz, 36.81 dBµV
Display Line: 54 dBµV;
10/15/02 5:09:53 PM