

PowerSDR-IQ v1.12.06
 Setup Memory Wave Equalizer XVTRs CWX

Stop

VFO A: **1,611 000**
Broadcast AM Med Wave

VFO B: **3,712 000**
75M Ext/Adv SSB

Tune Step: - 500Hz +

VFO Sync VFO Lock

7.000000 Save Restore

RX1 Meter TX Meter
Signal Fwd Pwr
-68 dBm

Band - HF

160	80	60
40	30	20
17	15	12
10	6	2
VHF+	WWV	GEN

Mode - DRM

LSB	USB	DSB
CwL	CwU	FMN
AM	SAM	SPEC
DIGL	DIGU	DRM

Filter

Lo: -6000 Hi: 6000

Display: 1,500 1,520 1,540 1,560 1,580 1,600 1,620 1,640 1,660 1,680

9990.0Hz -65.1dBm 1,620,990 MHz

Center Zoom: 0.5x 1x 2x 4x

DSP: NR ANF NB NB2 CD RN

Display Mode: Waterfall

Mode Specific Controls - Digital
 VAC RX Gain: 20 Sample Rate: 48000
 Loop TX Gain: 20

MON TUN
MOX
MUT X2TR
Rec Play

Mozilla Firefox

dream
View Settings ?

Level [dB] **15.32 kbps EEP AAC+ Mono**

Vatican Radio
This is a DRM MW transmission 1611KHz from Vatican Radio (Vatican City).
ID:E24104

Varied

1 Vatican Radio | AAC+ Mono (15.32 kbps)
2
3
4

System Evaluation

SNR: **14.5 dB**
 MSC WMER / MSC MER: 17.1 dB / 17.0 dB
 DC Frequency of DRM Signal: 12000.18 Hz
 Sample Frequency Offset: -6.18 Hz (-128 ppm)
 Doppler / Delay: 1.07 Hz / 1.28 ms

MSC CRC:
 SDC CRC:
 FAC CRC:
 Frame Sync:
 Time Sync Acq:
 I/O Interface:

DRM Mode / Bandwidth: B / 9 kHz
 Interleaver Depth: 2 s (Long Interleaving)
 SDC / MSC Mode: 4-QAM / SM 64-QAM
 Prot. Level (B / A): 0 / 0
 Number of Services: Audio: 1 / Data: 0
 Received time - date: Service not available

Chart Selector
 Spectrum
 Input PSD
 Input Spectrum
 Waterfall Input Spectrum
 Shifted PSD

Waterfall Input Spectrum
 Frequency [kHz]

Channel Estimation: Frequency Interpolation
 Wiener Linear DFT Zero Pad

Misc Settings
 Flip Input Spectrum
 Mute Audio
 MLC: Number of Iterations: 0

Interferer Rejection
 Bandpass Filter Modified Metrics

Channel Estimation: Time Interpolation
 Wiener Linear

Log File, Audio
 Log File, Freq: 1008 kHz
 Save Audio as WAV Reverberation

Time Sync Tracking
 Guard Energy First Peak

GPS
 Lat: 0.0000° Long: 0.0000° Alt: ?
 UTC: ? Satellites: ?
 Speed: ? Heading: ?

Stations
View Remote Update

Station Name	Time [UTC]	Frequency [kHz]	Target	Power [kW]	Country
RAI tests	0000-2400	693	Italy	30	Italy
DLF	0000-2400	729	NE Germany	1	Germany
DLF	0000-2400	855	Berlin	10	Germany
Economic Ch.	0000-2400	1008	Prov. Hunan	4	China
Tests	0000-2400	1386	West Sussex	?	Great Britain
SWR Das Ding	0000-2400	1485	SW Germany	0.42	Germany
Oldestar Radio	0000-2400	1485	Berlin	1	Germany
Vatican Radio	2210-2400	1530	Europe	60	Vatican
OldieStar Radio	2200-0400	1575	Europe	100	Germany
WDR 2 Klassik	0000-2400	1593	W Germany	10	Germany
DW	2200-0600	3995	Europe	90	Portugal
RTL France	0000-2400	5990	Europe	50	Luxembourg
BR-B5akt	0500-2305	6085	Europe	50	Germany
RTL Radio	0000-2400	6095	Europe	50	Luxembourg
Radio Sweden	2230-2300	9800	NE USA	70	Canada
Radio Kuwait	2200-0200	11675	NE USA	120	Kuwait
RNZI	1851-0658	15720	Pacific	100	New Zealand
biteXpress	0000-2400	15896	Erlangen	0.1	Germany

22:54 UTC 1008 kHz

start | dds_controller : M... | powersdr-iq - Goo... | PowerSDR-IQ v1... | Dream | dream | New Kejuvo Ope... | EN 12:54 ru

PowerSDR-IQ v1.12.06
 Setup Memory Wave Equalizer XVTRs CWX

Stop

VFO A: **3,995 000**
75M SSB

VFO B: **3,712 000**
75M Exo/Adv SSB

Tune Step: - 500Hz +
 VFO Sync VFO Lock
 7.000000 Save Restore

RX1 Meter TX Meter
 Signal Fwd Pwr
-72 dBm

Band - HF

160	80	60
40	30	20
17	15	12
10	6	2
VHF+	WWV	GEN

Mode - DRM

LSB	USB	DSB
CwL	CwU	FMN
AM	SAM	SPEC
DIGL	DIGU	DRM

Filter

Lo: -6000 Hi: 6000

Display: 0 3,900 3,920 3,940 3,960 3,980 4,000 4,020 4,040 4,0600

Center Zoom: 0.5x 1x 2x 4x

DSP: NR ANF NB NB2 CD PM

Display Mode: Waterfall

Mode Specific Controls - Digital
 VAC RX Gain: 20 Sample Rate: 48000
 Loop TX Gain: 20

MON TUN
 MOX
 MUT X2TR
 Rec Play

Mozilla Firefox

dream
 View Settings ?

Level [dB] **16.92 kbps EEP AAC+ P-Stereo**
BBC & DW Test
 English
 Current Affairs ID:E1C238

Coming at 22:30 BUSINESS DAILY
 The daily drama of money and work from the BBC.

1 BBC & DW Test | AAC+ P-Stereo (16.92 kbps) + EPG (0.54 kbps) + AFS
 2
 3
 4

System Evaluation

SNR: **21.8 dB**
 MSC WMER / MSC MER: 26.1 dB / 18.9 dB
 DC Frequency of DRM Signal: 12000.39 Hz
 Sample Frequency Offset: -5.79 Hz (-120 ppm)
 Doppler / Delay: 0.57 Hz / 7.49 ms

MSC CRC:
 SDC CRC:
 FAC CRC:
 Frame Sync:
 Time Sync Acq:
 I/O Interface:

DRM Mode / Bandwidth: B / 10 kHz
 Interleaver Depth: 2 s (Long Interleaving)
 SDC / MSC Mode: 16-QAM / SM 64-QAM
 Prot. Level (B / A): 0 / 0
 Number of Services: Audio: 1 / Data: 0
 Received time - date: Tue Nov 25 22:58:00 2008

Chart Selector
 Spectrum
 Input PSD
 Input Spectrum
 Waterfall Input Spectrum
 Shifted PSD

Waterfall Input Spectrum
 Frequency [kHz]

Channel Estimation: Frequency Interpolation
 Wiener Linear DFT Zero Pad

Misc Settings
 Flip Input Spectrum
 Mute Audio
 MLC: Number of Iterations: 0

Interferer Rejection
 Bandpass Filter Modified Metrics

Channel Estimation: Time Interpolation
 Wiener Linear

Log File, Audio
 Log File, Freq: 1008 kHz
 Save Audio as WAV Reverberation

Time Sync Tracking
 Guard Energy First Peak

GPS
 Lat: 0.0000° Long: 0.0000° Alt: ?
 UTC: ? Satellites: ?
 Speed: ? Heading: ?

Close

Stations
 View Remote Update

Station Name	Time [UTC]	Frequency [kHz]	Target	Power [kW]	Country
RAI tests	0000-2400	693	Italy	30	Italy
DLF	0000-2400	729	NE Germany	1	Germany
DLF	0000-2400	855	Berlin	10	Germany
Economic Ch.	0000-2400	1008	Prov. Hunan	4	China
Tests	0000-2400	1386	West Sussex	?	Great Britain
SwR Das Ding	0000-2400	1485	SW Germany	0.42	Germany
Oldestar Radio	0000-2400	1485	Berlin	1	Germany
Vatican Radio	2210-2400	1530	Europe	60	Vatican
OldieStar Radio	2200-0400	1575	Europe	100	Germany
WDR 2 Klassik	0000-2400	1593	W Germany	10	Germany
DW	2200-0600	3995	Europe	90	Portugal
RTL France	0000-2400	5990	Europe	50	Luxembourg
BR-B5akt	0500-2305	6085	Europe	50	Germany
RTL Radio	0000-2400	6095	Europe	50	Luxembourg
Radio Sweden	2230-2300	9800	NE USA	70	Canada
Radio Kuwait	2200-0200	11675	NE USA	120	Kuwait
RNZI	1851-0658	15720	Pacific	100	New Zealand
biteXpress	0000-2400	15896	Erlangen	0.1	Germany

22:58 UTC 1008 kHz

start dds_controller ... powersdr-iq - ... PowerSDR-IQ ... PowerSDR-IQ ... Dream dream New Ksjjevo O... EN 12:58 ru

PowerSDR-IQ v1.12.06
 Setup Memory Wave Equalizer XVTRs CWX

Stop VFO A: 6,085 000 49M Short Wave VFO Sync VFO Lock 7.000000 Tune Step: - 500Hz + VFO B: 3,712 000 75M Exo/Adv SSB

RX1 Meter TX Meter Signal Fwd Pwr -61 dBm

Band - HF: 160 80 60, 40 30 20, 17 15 12, 10 6 2, VHF+ WWV GEN

Mode - DRM: LSB USB DSB, CWL CWU FMN, AM SAM SPEC, DIGL DIGU **DRM**

Filter -

Sample Rate: 48000

Lo: -6000 Hi: 6000

Chart Selector: Spectrum, Input PSD, Input Spectrum, Waterfall Input Spectrum, Shifted PSD

Waterfall Input Spectrum
 Frequency [kHz]: 0 5 10 15 20

Channel Estimation: Frequency Interpolation: Wiener Linear DFT Zero Pad. Misc Settings: Flip Input Spectrum MLC: Number of Iterations: 0. Interferer Rejection: Bandpass Filter Modified Metrics. Channel Estimation: Time Interpolation: Wiener Linear. Time Sync Tracking: Guard Energy First Peak. Log File, Audio: Log File, Freq: 1008 kHz. Save Audio as WAV. Deberberation.

Receiving Status: Close

GPS: Lat: 0.0000° Long: 0.0000° Alt: ? UTC: ? Satellites: ? Speed: ? Heading: ?

23:00 UTC 1008 kHz

start dds_controller ... powersdr-iq - ... PowerSDR-IQ ... PowerSDR-IQ ... Dream dream New Ksjjevo O... EN 1:00 nj

dream
View Settings ?

Level [dB]: 15.54 kbps EEP AAC+ Mono
BR-B5akt
 German Information Germany ID:E0D315

Sie hoeren eine DRM-Testsendung des Bayerischen Rundfunks.

1 BR-B5akt | AAC+ Mono (15.54 kbps)
 2 BR-Journaline | Data: Journaline (1.92 kbps)
 3
 4

Multimedia [BR-Journaline ...]
File Settings

NewsService Journaline® NewsService Journaline®

Bayerischer Rundfunk

- Verkehrsinfo
- Bayernweiter
- Münchenweiter
- BR Hörfunk
- BR Fernsehen

Features NewsService Journaline(R) decoder technology

Receiving Status: Close

System Evaluation

SNR: 16.4 dB
 MSC WMER / MSC MER: 20.6 dB / 20.0 dB
 DC Frequency of DRM Signal: 12000.21 Hz
 Sample Frequency Offset: -5.68 Hz (-118 ppm)
 Doppler / Delay: 0.97 Hz / 1.03 ms

MSC CRC: SDC CRC: FAC CRC: Frame Sync: Time Sync Acq: I/O Interface:

DRM Mode / Bar: Interleaver Depth: SDC / MSC Mod: Prot. Level [B / A]: Number of Service: Received time:

Time [UTC]	Frequency [kHz]	Target	Power [kW]	Country
0000-2400	693	Italy	30	Italy
0000-2400	729	NE Germany	1	Germany
0000-2400	855	Berlin	10	Germany
0000-2400	1008	Prov. Hunan	4	China
0000-2400	1386	West Sussex	?	Great Britain
2300-0300	1440	Europe	120	Luxembourg
0000-2400	1485	SW Germany	0.42	Germany
0000-2400	1485	Berlin	1	Germany
2210-2400	1530	Europe	60	Vatican
2200-0400	1575	Europe	100	Germany
0000-2400	1593	W Germany	10	Germany
2300-1757	3965	France	1	France
2200-0600	3995	Europe	90	Portugal
0000-2400	5990	Europe	50	Luxembourg
0500-2305	6085	Europe	50	Germany
0000-2400	6095	Europe	50	Luxembourg
2300-2345	9750	N America	60	Vatican
2200-0200	11675	NE USA	120	Kuwait

PowerSDR-IQ v1.12.06
 Setup Memory Wave Equalizer XVTRs CWX

Stop
 VFO A: 6,085 000
 49M Short Wave
 VFO Sync VFO Lock 7.000000 Save Restore
 Tune Step: - 500Hz +
 VFO B: 3,712 000
 75M Exo/Adv SSB

RX1 Meter TX Meter
 Signal Fwd Pwr
 -67 dBm
 1 3 5 7 9 +20 +40 +60

Band - HF

160	80	60
40	30	20
17	15	12
10	6	2
VHF+	WWV	GEN

 Mode - DRM

LSB	USB	DSB
CwL	CwU	FMN
AM	SAM	SPEC
DIGL	DIGU	DRM

 Filter

Display
 5,980 6,000 6,020 6,040 6,060 6,080 6,100 6,120 6,140
 15007.1Hz -61.2dBm 6,100 007 MHz

Center Zoom: 0.5x 1x 2x 4x
 DSP: NR ANF NB NB2 CD PM
 Display Mode: Waterfall
 Mode Specific Controls - Digital: VAC RX Gain: 20 Sample Rate: 48000
 Loop TX Gain: 20

dream
 View Settings ?
 Level [dB]: 15.54 kbps EEP AAC+ Mono
BR-B5akt
 German Information Germany ID:E0D315
 mit Journaline - Test

1 BR-B5akt | AAC+ Mono (15.54 kbps)
 2 BR-Journaline | Data: Journaline (1.92 kbps)
 3
 4

System Evaluation
 SNR: 19.1 dB
 MSC WMER / MSC MER: 20.1 dB / 19.5 dB
 DC Frequency of DRM Signal: 12000.22 Hz
 Sample Frequency Offset: -5.85 Hz (-121 ppm)
 Doppler / Delay: 0.63 Hz / 1.23 ms
 MSC CRC:
 SDC CRC:
 FAC CRC:
 Frame Sync:
 Time Sync Acq:
 I/O Interface:
 DRM Mode / Bandwidth: B / 10 kHz
 Interleaver Depth: 2 s (Long Interleaving)
 SDC / MSC Mode: 16-QAM / SM 64-QAM
 Prot. Level (B / A): 0 / 0
 Number of Services: Audio: 1 / Data: 1
 Received time - date: Tue Nov 25 23:01:00 2008

Chart Selector
 Spectrum
 Input PSD
 Input Spectrum
 Waterfall Input Spectrum
 Shifted PSD

Waterfall Input Spectrum
 Frequency [kHz]

Channel Estimation: Frequency Interpolation
 Wiener Linear DFT Zero Pad
 Misc Settings
 Flip Input Spectrum Mute Audio
 MLC: Number of Iterations: 0
 Interferer Rejection
 Bandpass Filter Modified Metrics
 Channel Estimation: Time Interpolation
 Wiener Linear
 Time Sync Tracking
 Guard Energy First Peak
 Log File, Audio
 Log File, Freq: 1008 kHz
 Save Audio as WAV Reverberation
 GPS
 Lat: 0.0000° Long: 0.0000° Alt: ?
 UTC: ? Satellites: ?
 Speed: ? Heading: ?

Stations
 View Remote Update

Station Name	Time [UTC]	Frequency [kHz]	Target	Power [kW]	Country
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DLF	0000-2400	855	Berlin	10	Germany
Economic Ch.	0000-2400	1008	Prov. Hunan	4	China
Tests	0000-2400	1386	West Sussex	?	Great Britain
RTL Radio	2300-0300	1440	Europe	120	Luxembourg
SWR Das Ding	0000-2400	1485	SW Germany	0.42	Germany
Oldiestar Radio	0000-2400	1485	Berlin	1	Germany
Vatican Radio	2210-2400	1530	Europe	60	Vatican
OldieStar Radio	2200-0400	1575	Europe	100	Germany
WDR 2 Klassik	0000-2400	1593	W Germany	10	Germany
TDF	2300-1757	3965	France	1	France
DW	2200-0600	3995	Europe	90	Portugal
RTL France	0000-2400	5990	Europe	50	Luxembourg
BR-B5akt	0500-2305	6085	Europe	50	Germany
RTL Radio	0000-2400	6095	Europe	50	Luxembourg
Vatican Radio	2300-2345	9750	N America	60	Vatican
Radio Kuwait	2200-0200	11675	NE USA	120	Kuwait

23:01 UTC 1008 kHz

start dds_controller ... powersdr-iq - ... PowerSDR-IQ ... PowerSDR-IQ ... Dream dream New Ksjjevo O... EN 1:01 ru