

XTASI

Performance Class measurement receiver modules

Advanced Broadcast Components
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www.4T2.eu

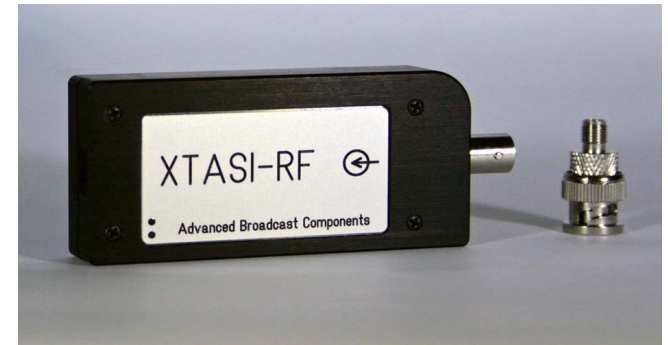
measurement instruments using XTASI

- 4T2 Portable
- 4T2 Rack
- XTASI-RF, -ASI, -S2+
- 4T2 Broadcast Multi Probe



features of the XTASI module line

- Providing broadcast physical interfaces to laptop, or office computers
 - All aluminium housing < 110 g, (100 x 42 x 16) mm
 - USB powered and controlled by host
 - Lifetime warranty
 - Full transport stream analysis and decoding
- XTASI-RF DVB-T/T2 receiver
 - XTASI-RF tab sheet in 4T2 Content-Analyser
 - Displays Constellation, Impulse Response, Spectrum, Error Rates, TPS, ...
- XTASI-ASI DVB-ASI input and Output interfaces
 - Legacy baseband interconnect for the 4T2 Content-Analyser
- Any ABC hardware enables the 4T2 Content-Analyser to work on IP using the PC ethernet interface



DVB-T specific RF measurements

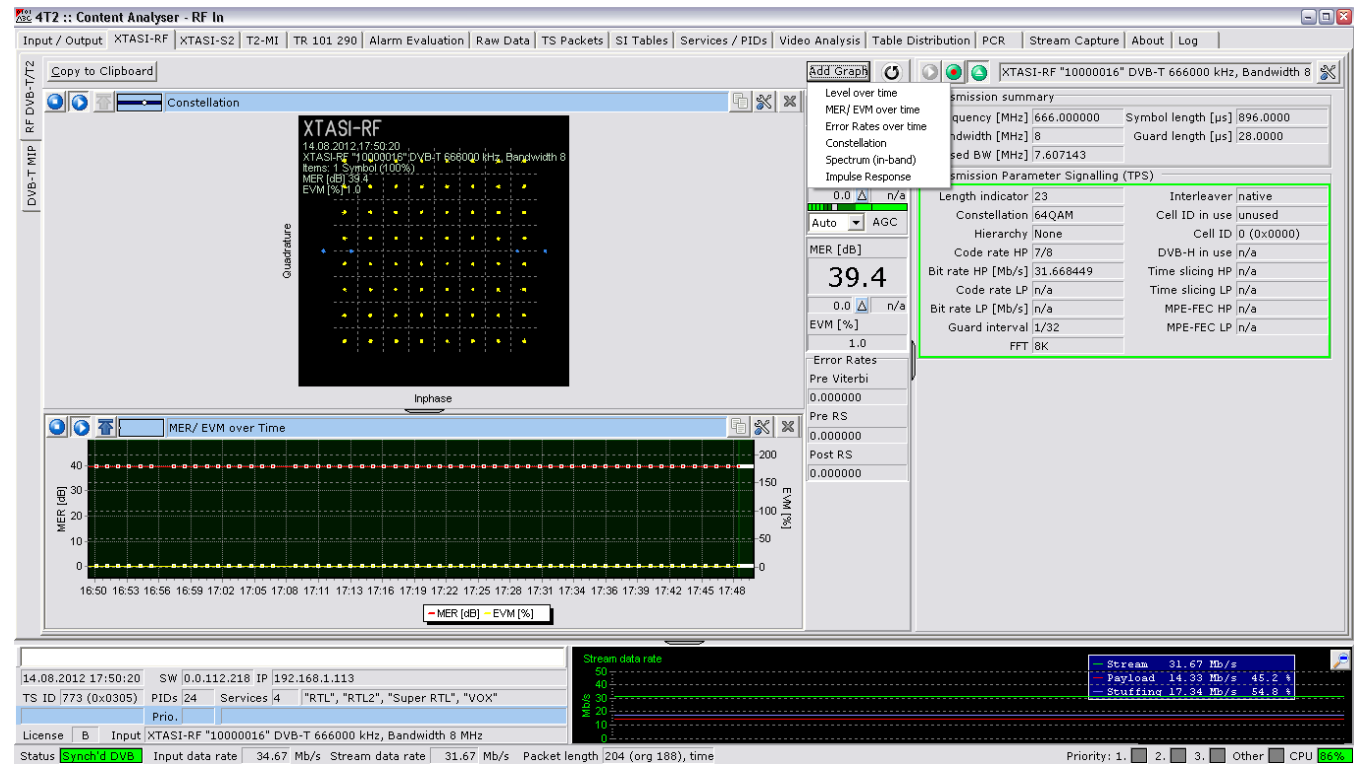
Graphical Displays:

- Constellation
- Impulse Response
- Spectrum (with shoulder measurements)

Numerical Results:

- Level
- MER (>42dB performance)
- EVM
- bit errors (Viterbi/RS)

Parameter signalling display



DVB-T2 specific RF measurements

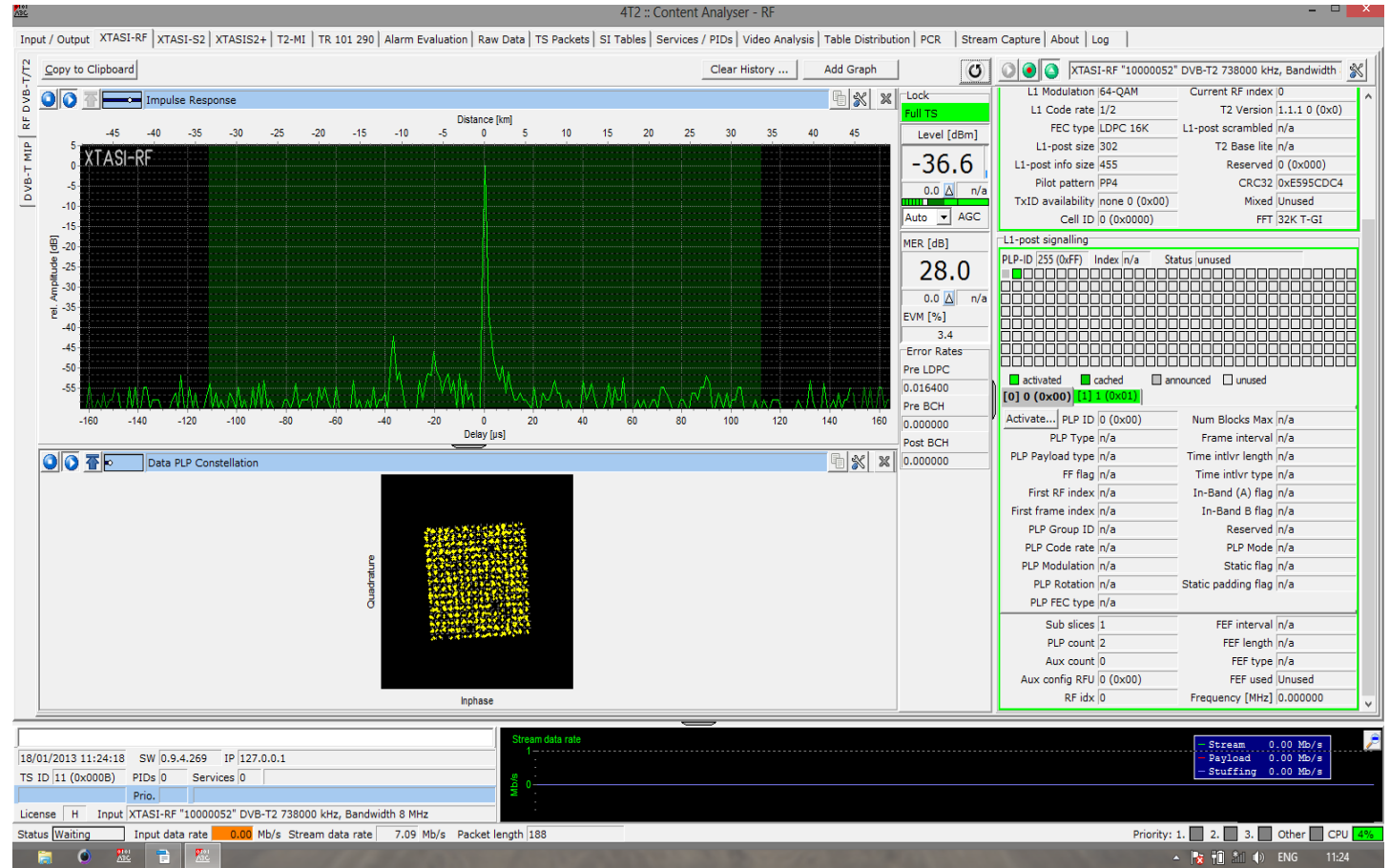
Graphical Displays:

- Constellations
- L1post, Data-PLP
- Impulse Response
- Spectrum (with shoulder measurements)

Numerical Results:

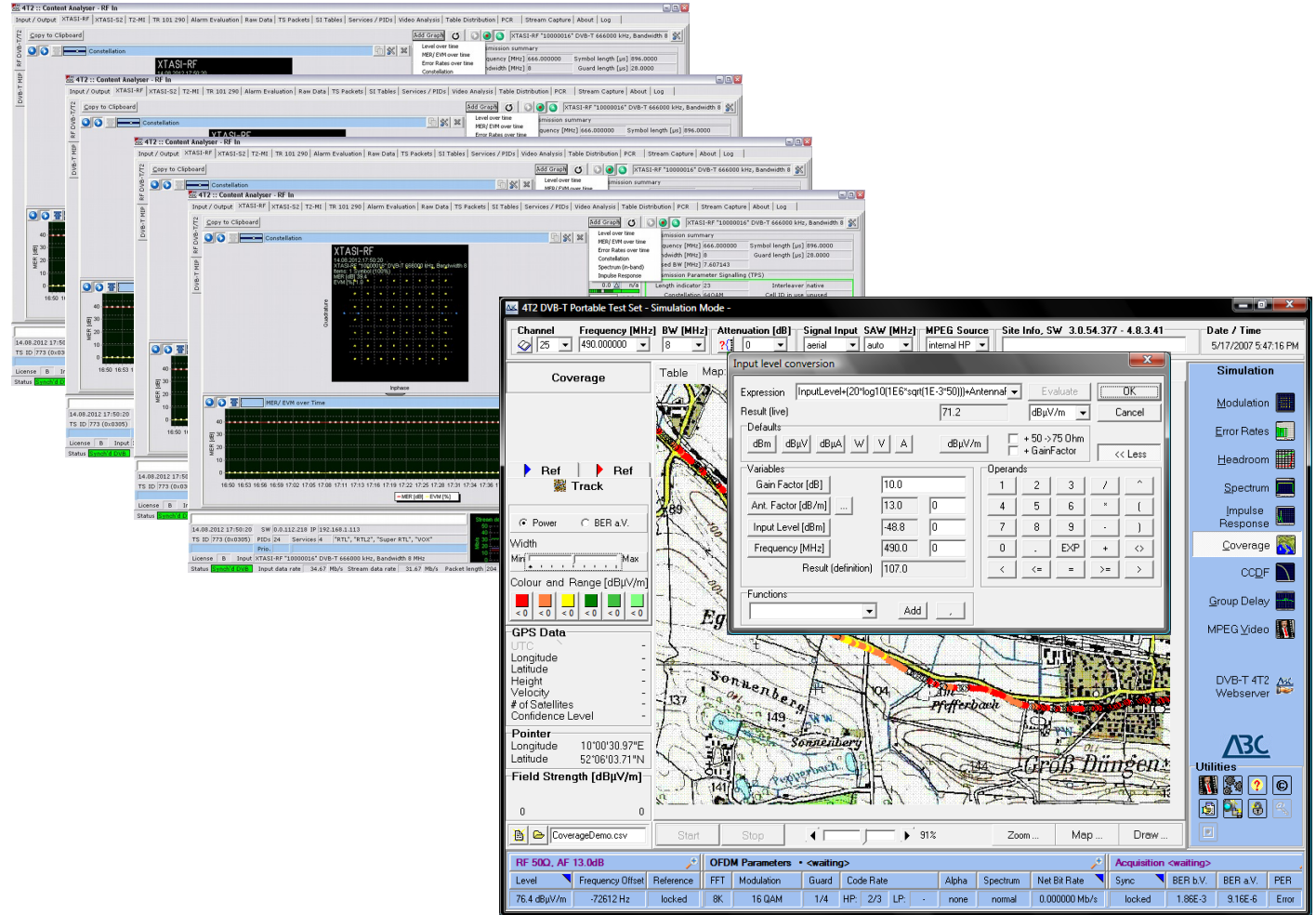
- Level
- MER (>42dB performance)
- EVM
- bit errors (LDPC/BCH)

Parameter signalling display



XTASI-RF based multi-channel coverage

XTASI-RF modules controlled through 4T2 Content-Analyzer application provide internal connection to Coverage server application. Coverage server provides map-data (open street map format) and provides database for measurement results. All measurement parameters of multiple XTASI-RF modules stored in csv database with kml/kmz output conversion. Multiple channels results stored in same database.



DVB-T/T2 technical specifications

Receiving Frequency: 46.5 MHz ÷ 870 MHz

Input level: -80 dBm ÷ 0 dBm

Graphical Displays: DVB-T Constellations
DVB-T2 L1post, Data-PLP
Impulse Response
Spectrum (with shoulder measurements)

Numerical Results: DVB-T Level
DVB-T2 MER (>42dB performance)
EVM
bit errors (Viterbi/RS or LDPC/BCH)

Parameter signalling display Parameter signalling display

DVB-S specific RF measurements

Graphical Displays:

- Constellation
- Spectrum

Numerical Results:

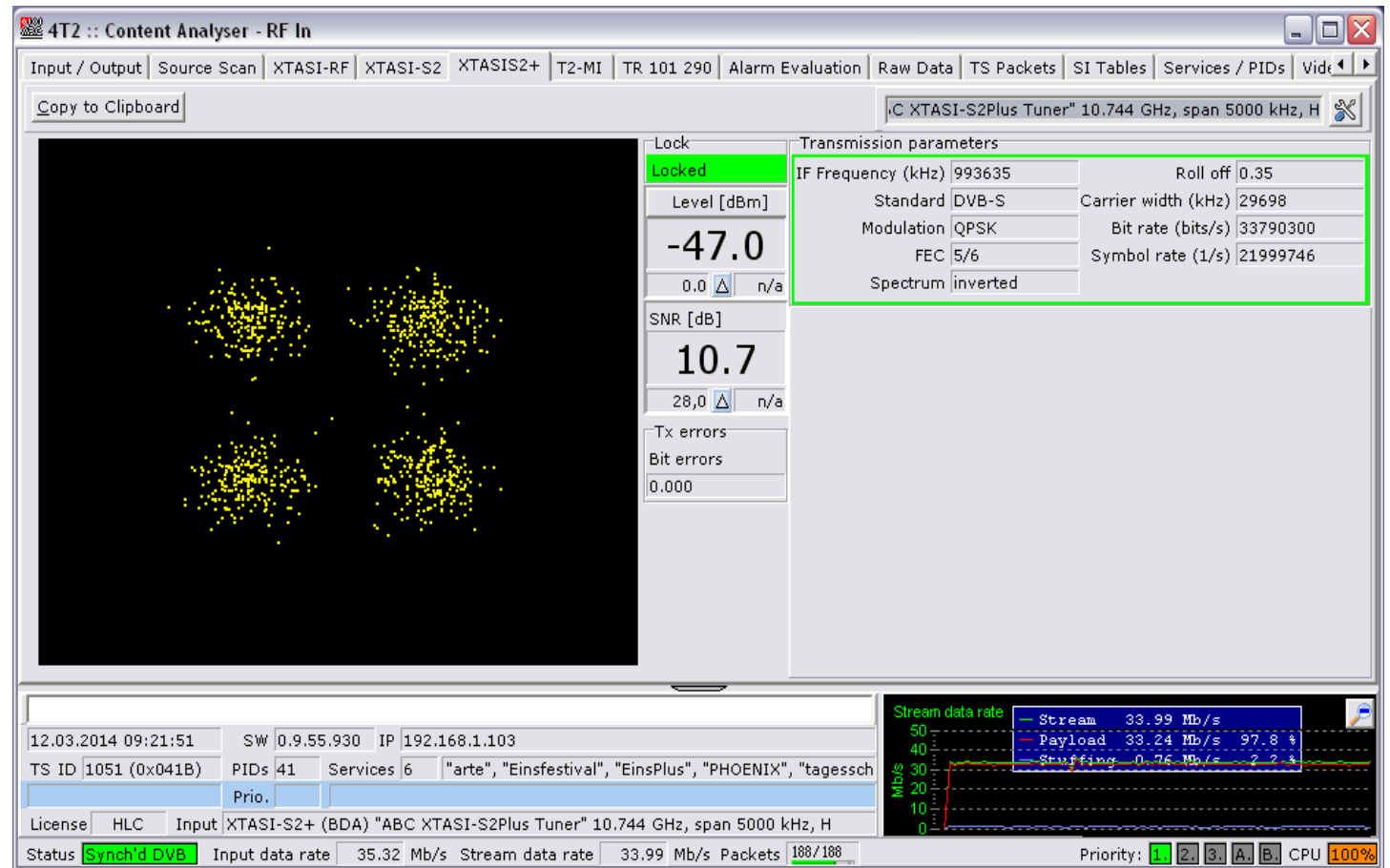
- Level, EIRP
- MER, SNR
- Eb/No, Es/NO

Transmission Errors:

- Viterbi and Reed Solomon
FEC

Transmission Parameters:

- IF-frequency
- modulation, FEC
- spectrum orientation,
- roll-off, carrier-width,
- Bit-rate, Symbol-rate



DVB-S2 specific RF measurements

Graphical Displays:

- Constellation

Numerical Results:

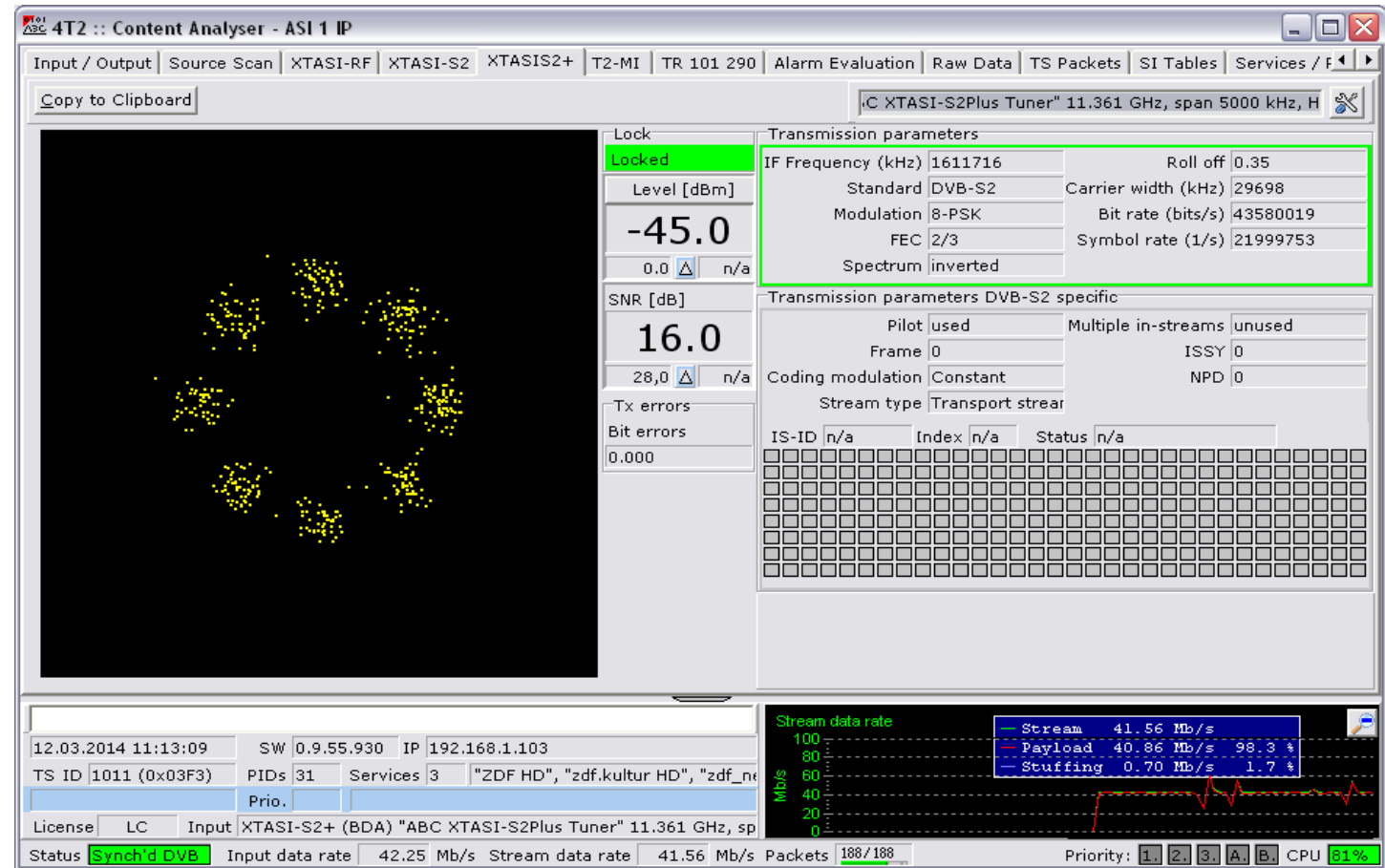
- Level, EIRP
- SNR
- Eb/No, Es/NO

Transmission Errors:

- LDPC, BCH short and normal modes

Transmission Parameters:

- IF-frequency
- modulation, FEC
- spectrum orientation,
- roll-off, carrier-width,
- Bit-rate
- Symbol-rate
- Pilot, Multi-Stream, ISSY, NPD, Stream Type



DVB-S/S2 technical specifications

Receiving Frequency:		950 MHz ÷ 2150 MHz
Input level:		-69 dBm ÷ -23 dBm
Symbol Rate:	DVB-S DVB-S2	QPSK/8PSK 0.2 ÷ 45 Msps QPSK 0.2 ÷ 45 Msps
DVB-S:	QPSK	1/2, 2/3, 3/4, 5/6, 7/8
DVB-S2 CCM ACM VCM:	QPSK 8PSK 16APSK 32APSK	1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 3/4, 4/5, 5/6, 8/9, 9/10

DVB-S/S2 technical specifications

Graphical Displays:		Constellation, Spectrum
Numerical Results:		Level, EIRP, MER, SNR, Eb/No, Es/NO
Transmission Errors:	DVB-S DVB-S2	Viterbi LDPC, BCH
Transmission Status:	DVB-S & DVB-S2 DVB-S2	IF-frequency, transmission-standard, modulation, FEC, spectrum orientation, roll-off, carrier-width, Bit-rate, Symbol-rate Pilot, Multi-Stream, ISSY, NPD, Stream Type

further information available at
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