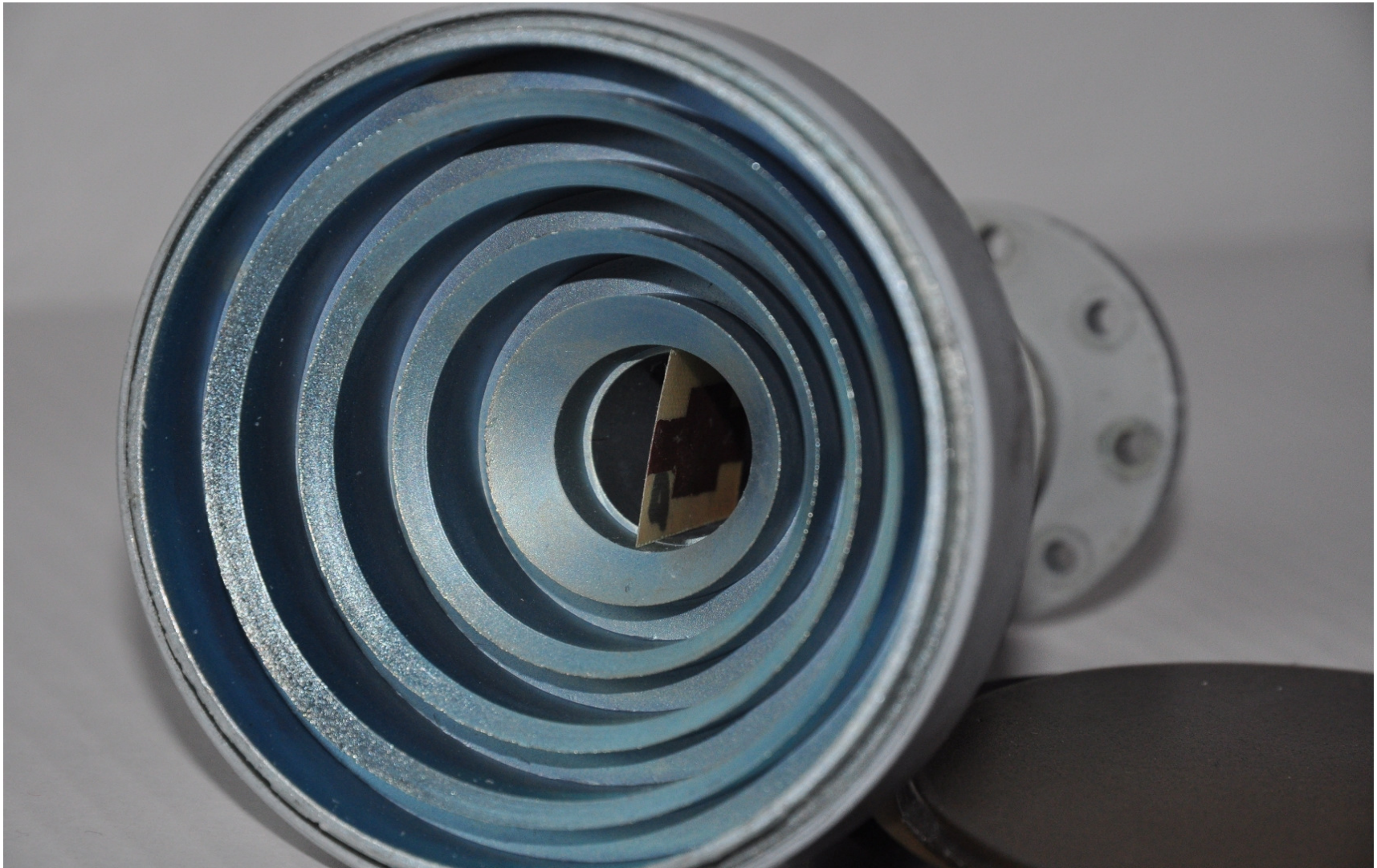




Names to feed horns were given by me for this particular test, I am not sure about correctness historic-wise about names/manufacturers/models



The Delocalising plate, which I used for these tests of circular signal reception from 36E, was a self-made plate (out of a circuit board). This is the best performing plate I've ever



### 36E (Eutelsat W4 and W7) - circular polarization signal

		SNF-031 w CM feedhorn	SNF-031 w Andrew feedhorn	SNF-031 w Raven feedhorn
Transponder 11823 Circular <u>HD channels</u>	SNR, dB MER, dB BER	<b>10.8</b> 11.4 1.0E-08	10.7 11.4 1.0E-08	10.7 11.4 1.0E-08
Transponder 12072 Circular <u>HD channels</u>	SNR, dB MER, dB BER	<b>10.1</b> 10.7 1.0E-08	10.0 10.6 1.0E-08	9.9 10.5 1.0E-08
Transponder 12130 Circular <u>HD channels</u>	SNR, dB MER, dB BER	<b>10.9</b> 11.4 1.0E-08	10.8 11.4 1.0E-08	10.7 11.3 1.0E-08
Transponder 12245 Circular <u>SD channels</u>	SNR, dB MER, dB BER	<b>12.2</b> 12.3 2.7E-05	12.0 11.9 4.4E-05	11.8 11.8 5.6E-05
Transponder 12322 Circular, <u>SD channels</u>	SNR, dB MER, dB BER	<b>11.7</b> 11.9 5.7E-05	11.5 11.6 7.5E-05	11.4 11.6 9.5E-05
Transponder 12379 Circular, <u>SD channels</u>	SNR, dB MER, dB BER	<b>10.6</b> 10.8 3.4E-04	10.4 10.8 2.7E-04	10.6 10.7 3.0E-04
Transponder 12456 Circular <u>SD channels</u>	SNR, dB MER, dB BER	<b>10.3</b> 10.6 4.3E-04	10.0 10.1 6.7E-04	10.1 10.3 5.9E-04
Transponder 12475 Circular <u>SD channels</u>	SNR, dB MER, dB BER	<b>10.9</b> 11.2 1.9E-04	10.7 10.8 2.7E-04	10.5 10.7 3.8E-04

Date 8-Apr-13  
 Time 10:30-11:30 am  
 Weather Clear, sunlight falling directly on the dish  
 Temperature +4C

Dish 1.2m Channel Master

Meter Satlook Micro HD

## 36E (Eutelsat W4 and W7) - linear polarization

		SNF-031 w CM feedhorn	SNF-031 w Andrew feedhorn	SNF-031 w Raven feedhorn
Transponder 11429 H	SNR, dB	11.6	<b>11.7</b>	11.6
	MER, dB	11.4	11.7	11.6
	BER	6.6E-05	7.3E-05	5.7E-05
Transponder 11439 H	SNR, dB	14.5	<b>14.7</b>	<b>14.7</b>
	MER, dB	14.0	14.3	14.2
	BER	1.2E-07	2.3E-08	1.2E-07
Transponder 11446 H	SNR, dB	<b>10.0</b>	<b>10.0</b>	9.9
	MER, dB	10.3	10.5	10.2
	BER	7.0E-04	6.1E-04	7.0E-04
Transponder 11643 H	SNR, dB	<b>10.3</b>	<b>10.3</b>	10.2
	MER, dB	10.6	10.4	10.4
	BER	3.8E-04	4.2E-04	4.5E-04
Transponder 11655 V	SNR, dB	<b>13.0</b>	<b>13.0</b>	12.7
	MER, dB	12.9	12.8	12.4
	BER	5.2E-06	2.7E-06	6.9E-06
Transponder 12507 H	SNR, dB	<b>15.1</b>	14.6	14.3
	MER, dB	14.9	14.5	13.9
	BER	1.0E-08	1.0E-08	1.0E-08
Transponder 12540 V	SNR, dB	<b>12.5</b>	12.1	12.1
	MER, dB	12.4	11.9	12.0
	BER	1.1E-05	4.1E-05	2.7E-05
Transponder 12573 V	SNR, dB	12.9	12.6	12.4
	MER, dB	<b>12.8</b>	12.4	12.2
	BER	3.1E-06	7.5E-06	1.5E-05
Transponder 12630 V	SNR, dB	<b>12.1</b>	11.7	11.7
	MER, dB	12.2	11.8	11.6
	BER	2.2E-05	3.0E-05	4.3E-05

Date 8-Apr-13  
 Time 10:30-11:30 am  
 Weather Clear, sunlight falling directly on the dish  
 Temperature +4+5C  
  
 Dish 1.2m Channel Master  
  
 Meter Satlook Micro HD

## 28.2E (Astra 2F and 1N)

		SNF-031 w CM feedhorn	SNF-031 w Andrew feedhorn	SNF-031 w Raven feedhorn
<b>Astra 2F 28.2E - EIRP ?? dB</b>				
Transponder 10964 H	SNR, dB MER, dB BER	6.2 7.1 1.0E-02	<b>8.5</b> 8.7 3.1E-03	8.4 8.9 3.2E-03
Transponder 10994 H	SNR, dB MER, dB BER	6.6 7.9 1.0E-02	7.9 8.2 5.2E-03	<b>8.2</b> 8.7 3.9E-03
Transponder 11023 H, <b>DVB-S2</b>	SNR, dB MER, dB BER	<b>No lock</b>	8.1 8.7 1.0E-08	<b>8.3</b> 7.9 1.0E-08
Transponder 11053 H	SNR, dB MER, dB BER	7.4 7.9 7.20E-03	<b>8.7</b> 9.1 2.5E-03	<b>8.7</b> 8.9 2.30E-03
Transponder 11126 V	SNR, dB MER, dB BER	8.4 9.0 3.50E-03	<b>8.6</b> 8.9 2.80E-03	8.5 8.8 3.00E-03
<b>Astra 1N 28.2E - EIRP 44 dB</b>				
Transponder 10773 H	SNR, dB MER, dB BER	12.6 12.4 7.3E-06	<b>14.8</b> 14.4 1.0E-08	14.5 14.1 3.5E-08
Transponder 10744 H	SNR, dB MER, dB BER	13.0 12.7 4.20E-06	<b>15.0</b> 14.8 2.60E-08	14.6 14.0 5.20E-08
Transponder 10906 V	SNR, dB MER, dB BER	13.6 13.3 1.2E-06	<b>15.1</b> 14.3 1.0E-08	15 14.8 1.7E-08

Date 8-Apr-13  
 Time 14:30-15:30  
 Weather Clear, sunny  
 Temperature +8+9C

Dish 1.2m Channel Master

Meter Satlook Micro HD