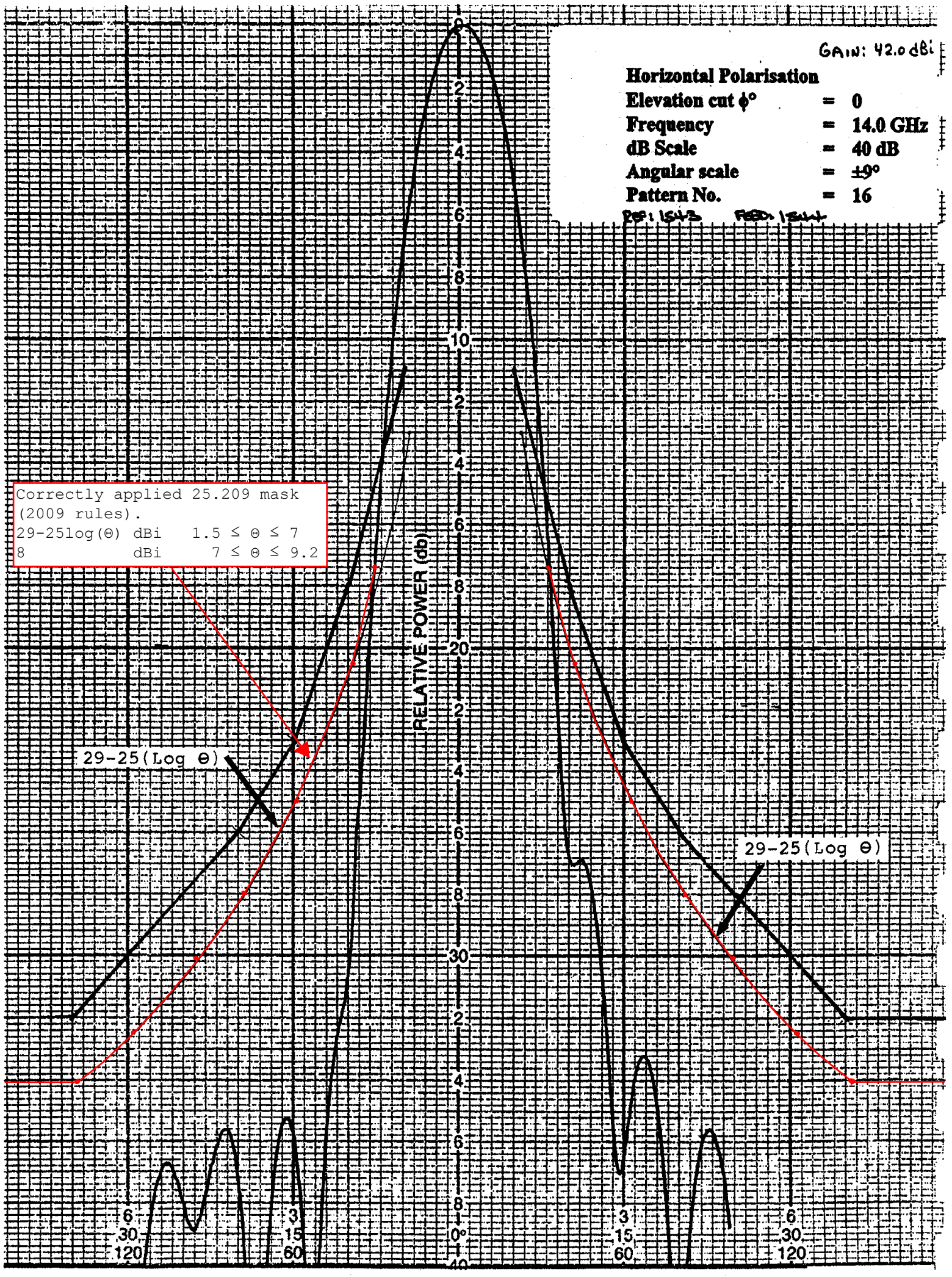
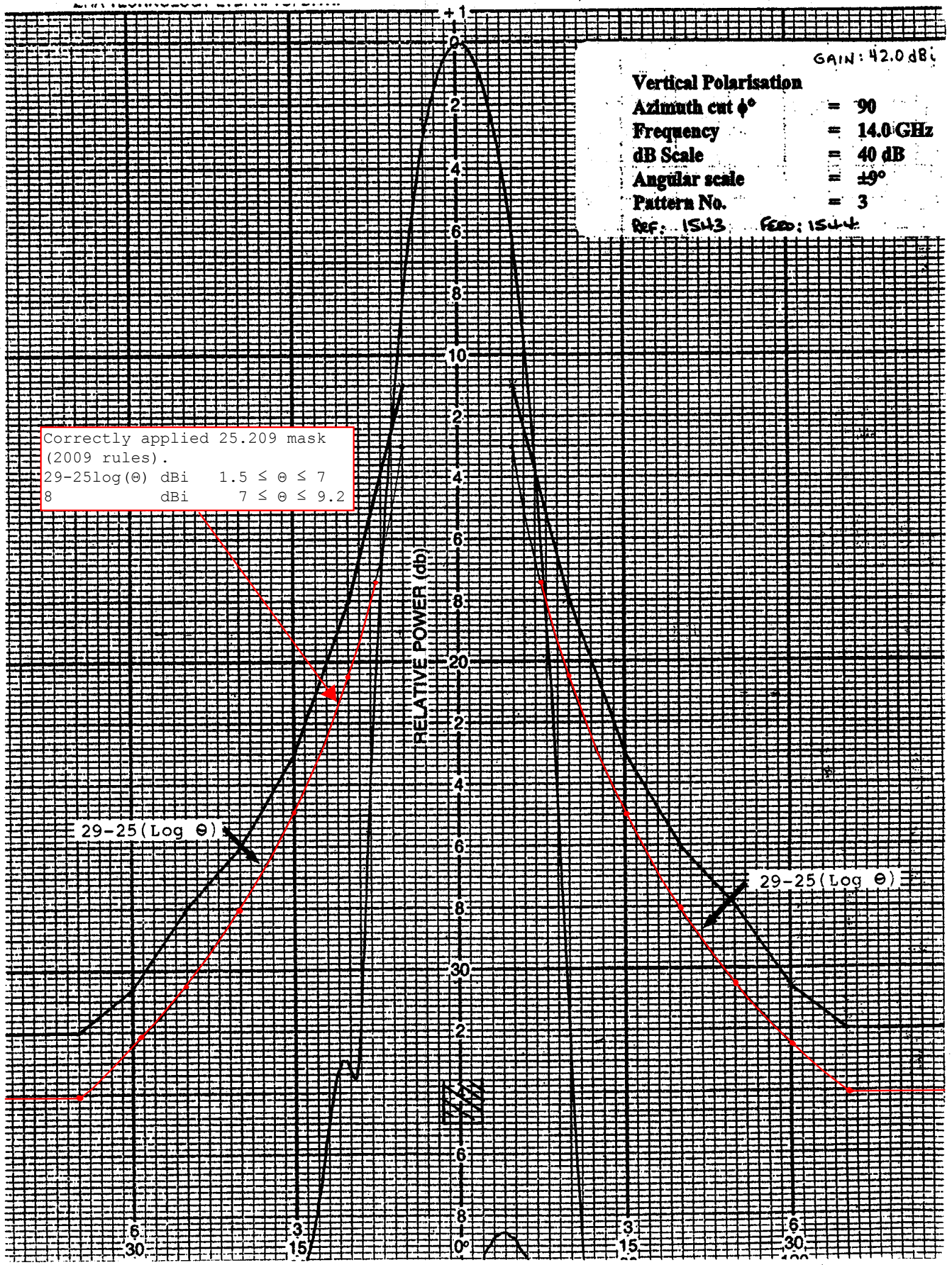
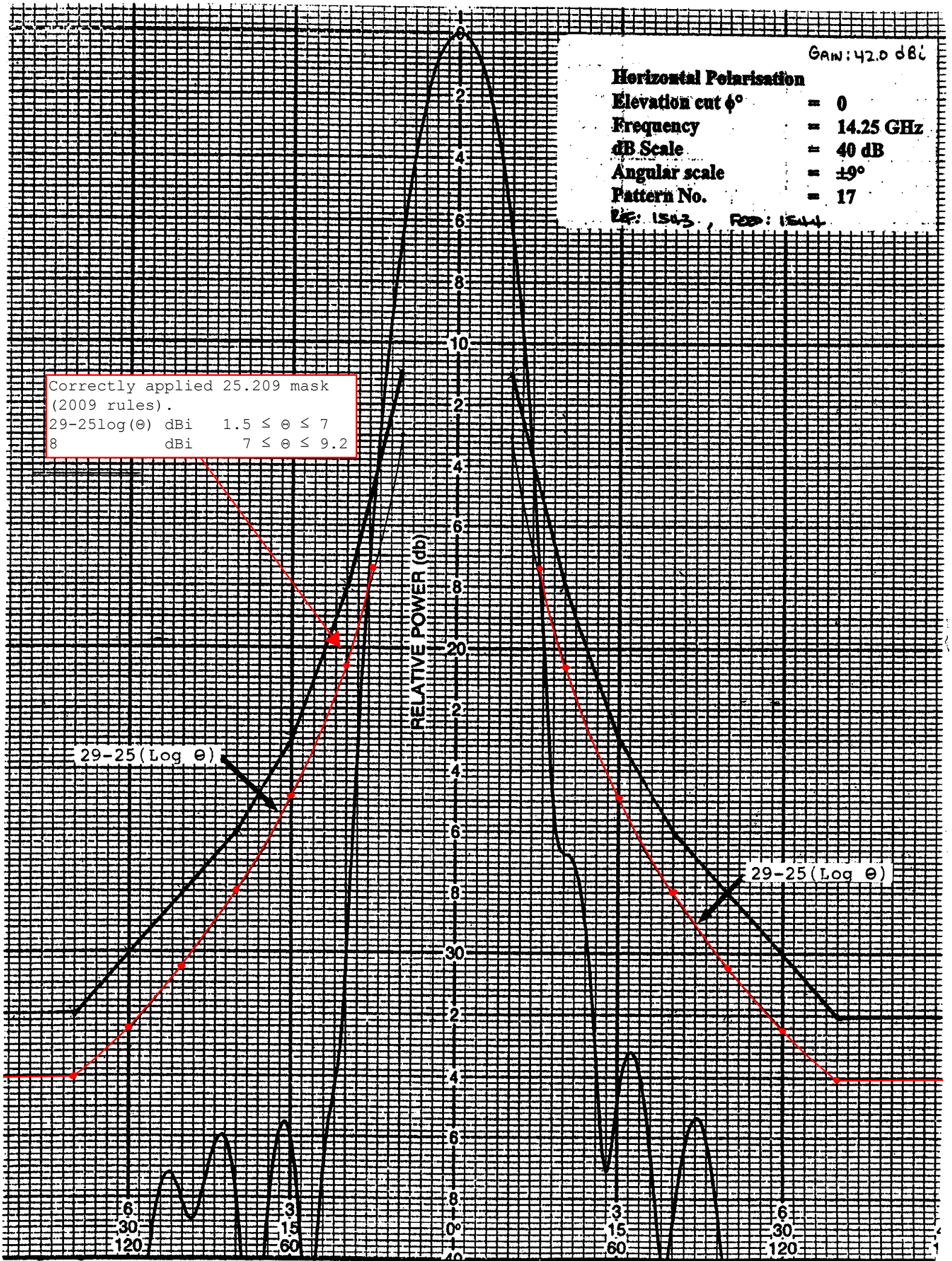
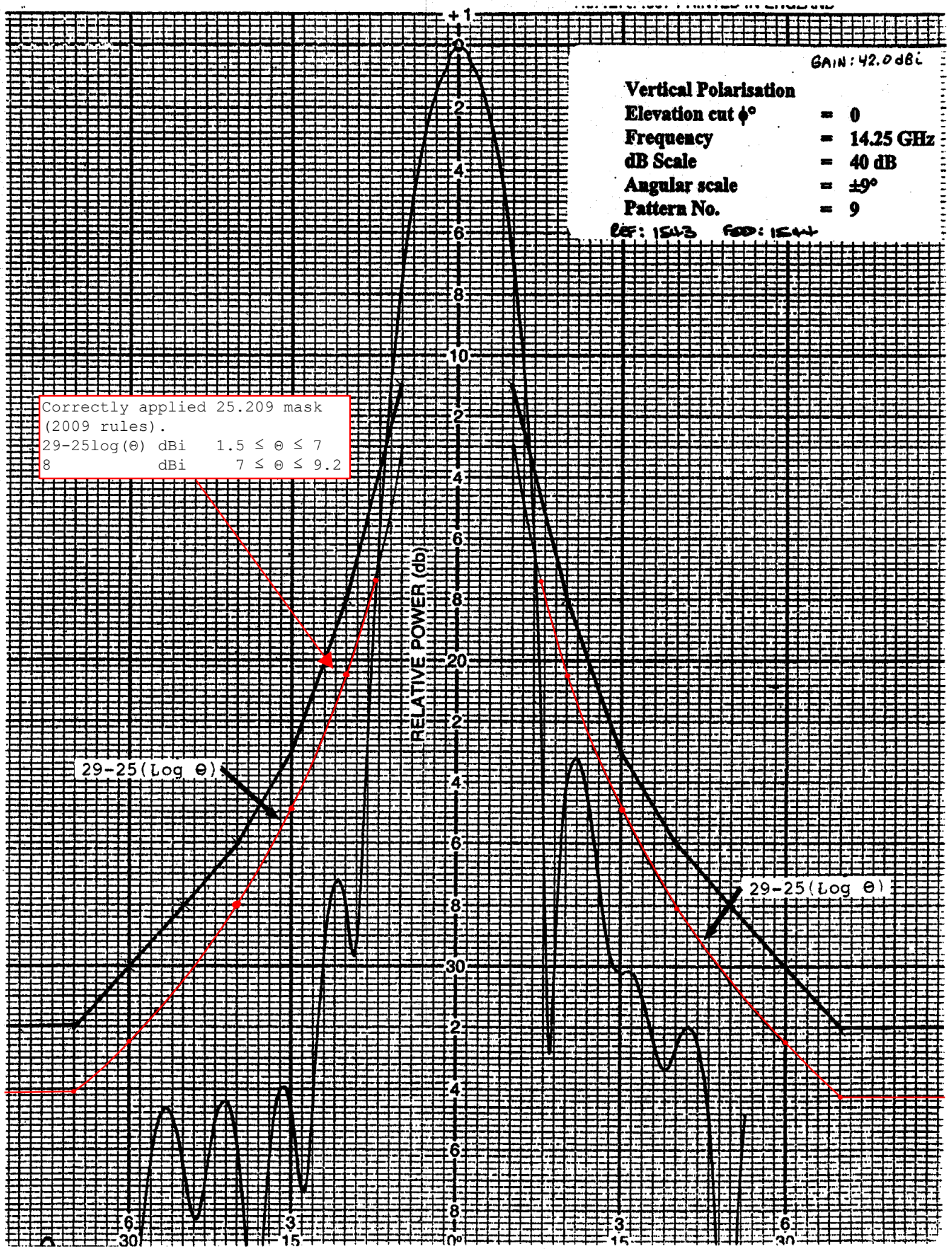
EXHIBIT C: MANUFACTURER ANTENNA PLOTS

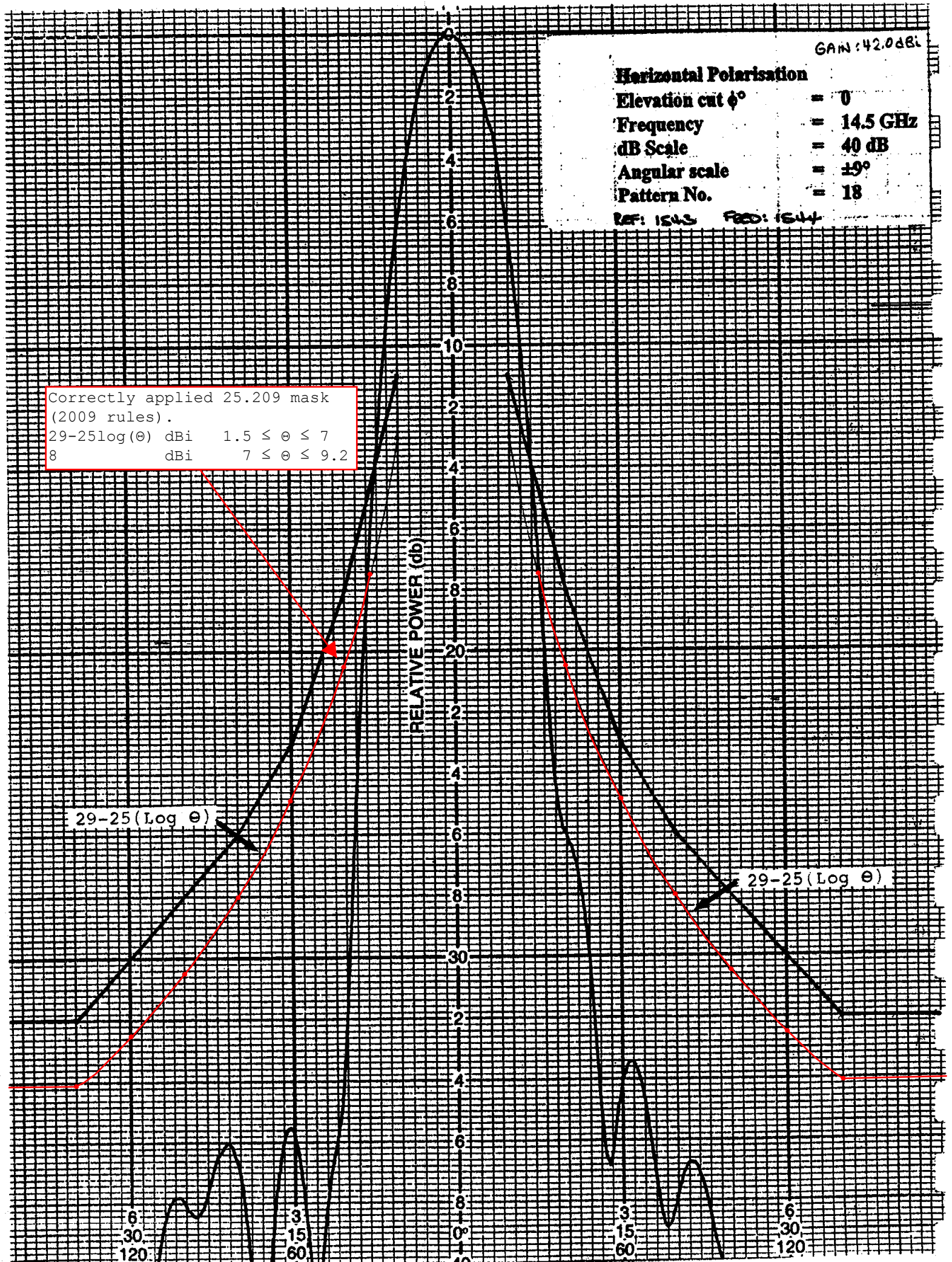
Exhibit C presents the manufacturers +/- 9 degree antenna plots. These plots indicate both an older mask (based upon 2008 and earlier editions of 47CFR Part 25.209; applied to the antenna plot by the antenna manufacturer) and an updated mask (based upon the 2009 edition of 47CFR Part 25.209; applied to the antenna plot by GCI). The 2009 regulations 25.209 (1) states that the mask will be $29–25\log_{10}\theta$ dBi for $1.5° \leq \theta \leq 7°$ for Ku-band antennas.

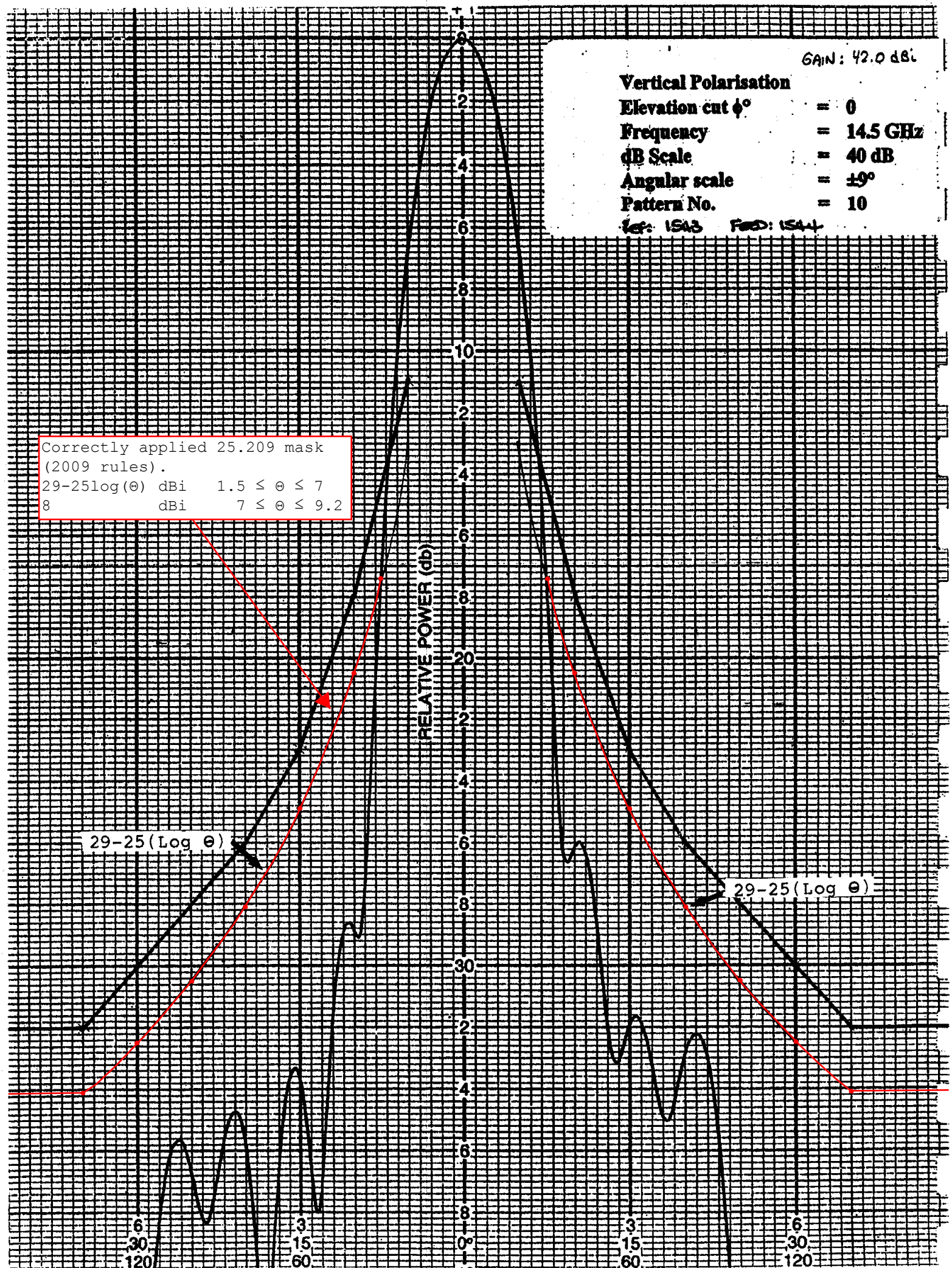

GAIN: 42.0 dBi
Horizontal Polarisation
Elevation cut ϕ° = 0
Frequency = 14.0 GHz
dB Scale = 40 dB
Angular scale = ±9°
Pattern No. = 16
REF: 1SH3 FEED: 1SH4
Correctly applied 25.209 mask
(2009 rules).
29-25log(Θ) dBi 1.5 ≤ Θ ≤ 7
8 dBi 7 ≤ Θ ≤ 9.2
29-25(Log Θ)
29-25(Log Θ)
RELATIVE POWER (db)
0
2
4
6
8
10
2
4
6
8
20
2
4
6
8
30
2
4
6
8
0°
40
6
30
120
3
15
60
3
15
60
6
30
120


GAIN: 42.0 dBi
Vertical Polarisation
Azimuth cut ϕ° = 90
Frequency = 14.0 GHz
dB Scale = 40 dB
Angular scale = ±9°
Pattern No. = 3
REF: 1543 FEED: 1544
Correctly applied 25.209 mask
(2009 rules).
29-25log(Θ) dBi 1.5 ≤ Θ ≤ 7
8 dBi 7 ≤ Θ ≤ 9.2
RELATIVE POWER (db)
29-25(Log Θ)
29-25(Log Θ)
+1
0
2
4
6
8
10
20
30
0°
6
30
3
15
3
15
6
30


GAIN: 42.0 dBi
Horizontal Polarisation
Elevation cut ϕ° = 0
Frequency = 14.25 GHz
dB Scale = 40 dB
Angular scale = ±9°
Pattern No. = 17
REF: 1543, FEED: 1544
Correctly applied 25.209 mask
(2009 rules).
29-25log(Θ) dBi 1.5 ≤ Θ ≤ 7
8 dBi 7 ≤ Θ ≤ 9.2
RELATIVE POWER (db)
29-25(Log Θ)
29-25(Log Θ)
0
2
4
6
8
10
20
30
40
0°
6
30
120
3
15
60
3
15
60
6
30
120


GAIN: 42.0 dBi
Vertical Polarisation
Elevation cut ϕ° = 0
Frequency = 14.25 GHz
dB Scale = 40 dB
Angular scale = ±9°
Pattern No. = 9
REF: 1543 FOD: 1544
Correctly applied 25.209 mask
(2009 rules).
29-25log(Θ) dBi 1.5 ≤ Θ ≤ 7
8 dBi 7 ≤ Θ ≤ 9.2
29-25(Log Θ)
29-25(Log Θ)
RELATIVE POWER (db)
+1
0
2
4
6
8
10
20
30
6
30
3
15
0°
3
15
6
30


GAIN: 42.0 dBi
Horizontal Polarisation
Elevation cut ϕ° = 0
Frequency = 14.5 GHz
dB Scale = 40 dB
Angular scale = ±9°
Pattern No. = 18
REF: 1543 FEED: 1544
Correctly applied 25.209 mask
(2009 rules).
29-25log(Θ) dBi 1.5 ≤ Θ ≤ 7
8 dBi 7 ≤ Θ ≤ 9.2
RELATIVE POWER (db)
29-25(Log Θ)
29-25(Log Θ)
0°
6
30
120
3
15
60
3
15
60
6
30
120


GAIN: 42.0 dBi
Vertical Polarisation
Elevation cut ϕ° = 0
Frequency = 14.5 GHz
dB Scale = 40 dB
Angular scale = ±9°
Pattern No. = 10
REF: 1543 FEED: 1544
Correctly applied 25.209 mask
(2009 rules).
29-25log(Θ) dBi 1.5 ≤ Θ ≤ 7
8 dBi 7 ≤ Θ ≤ 9.2
RELATIVE POWER (db)
29-25(Log Θ)
29-25(Log Θ)
0°
6
30
120
3
15
60
3
15
60
6
30
120