

Summary of test results for

Digianswer Protocol Analyser

Traffic Mode Reference: FCC 15.249 (15.35b, 15.209)

Use of patch antenna

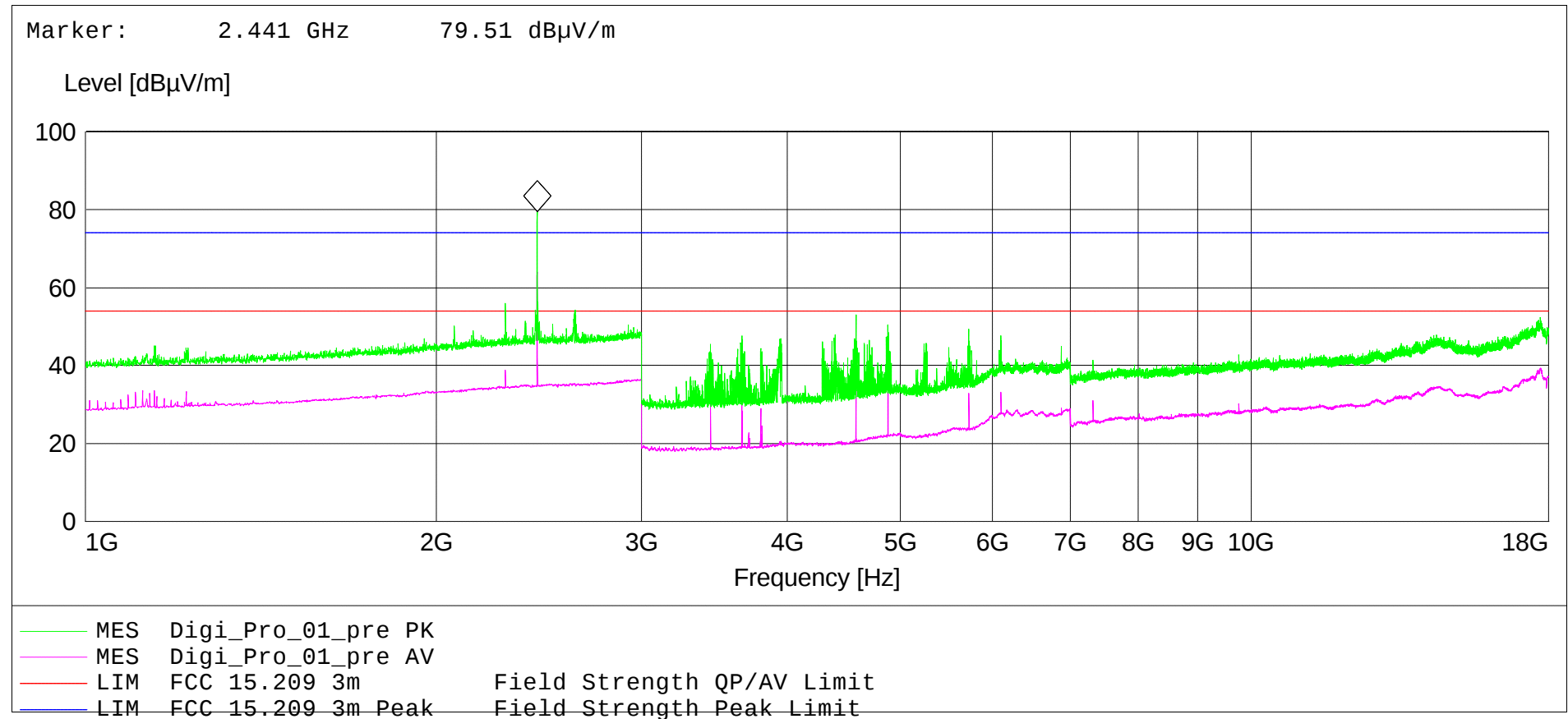
Frequency Range	Operating mode TX on	Antenna Polarisation	Diagram Name	Result Passed (P) Failed (F)
30 MHz – 1 GHz	2402 MHz	H+V	Digi_Pro_07	P
30 MHz – 1 GHz	2441 MHz	H+V	Digi_Pro_08	P
30 MHz – 1 GHz	2480 MHz	H+V	Digi_Pro_09	P
1 – 18 GHz	2402 MHz	H+V	Digi_Pro_04	P
1 – 18 GHz	2441 MHz	H+V	Digi_Pro_05	P
1 – 18 GHz	2480 MHz	H+V	Digi_Pro_06	P
18 – 25 GHz	2402 MHz	H+V	Digi_Pro_14	P

Use of pcb antenna

Frequency Range	Operating mode TX on	Antenna Polarisation	Diagram No. + no. of pages	Result Passed (P) Failed (F)
30 MHz – 1 GHz	2402 MHz	H+V	Digi_Pro_10	P
30 MHz – 1 GHz	2441 MHz	H+V	Digi_Pro_11	P
30 MHz – 1 GHz	2480 MHz	H+V	Digi_Pro_12	P
1 – 18 GHz	2402 MHz	H+V	Digi_Pro_02	P
1 – 18 GHz	2441 MHz	H+V	Digi_Pro_01	P
1 – 18 GHz	2480 MHz	H+V	Digi_Pro_03	P

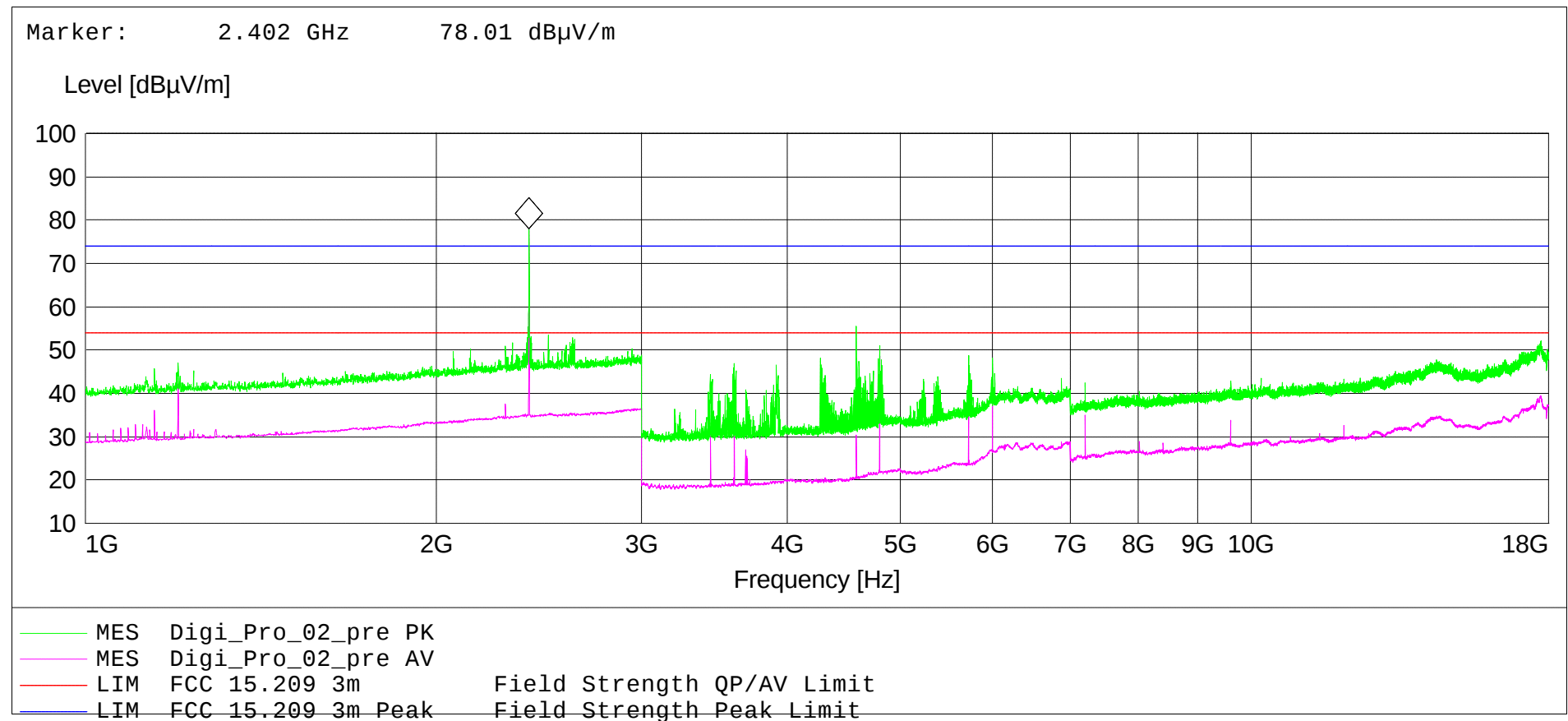
SPURIOUS EMISSION RADIATED
Diag.: 1

EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer A.S.
Operating Condition: TX on 2441 MHz, Ant.01
Test Site: 7 layers Ratingen
Operator: Peu / Sto
Test Specification: FCC 15.249 (15.35b, 15.209)
Comment: vertical + horizontal Polarisation
Start of Test: 05.02.01 / 12:32:16



SPURIOUS EMISSION RADIATED
Diag.: 2

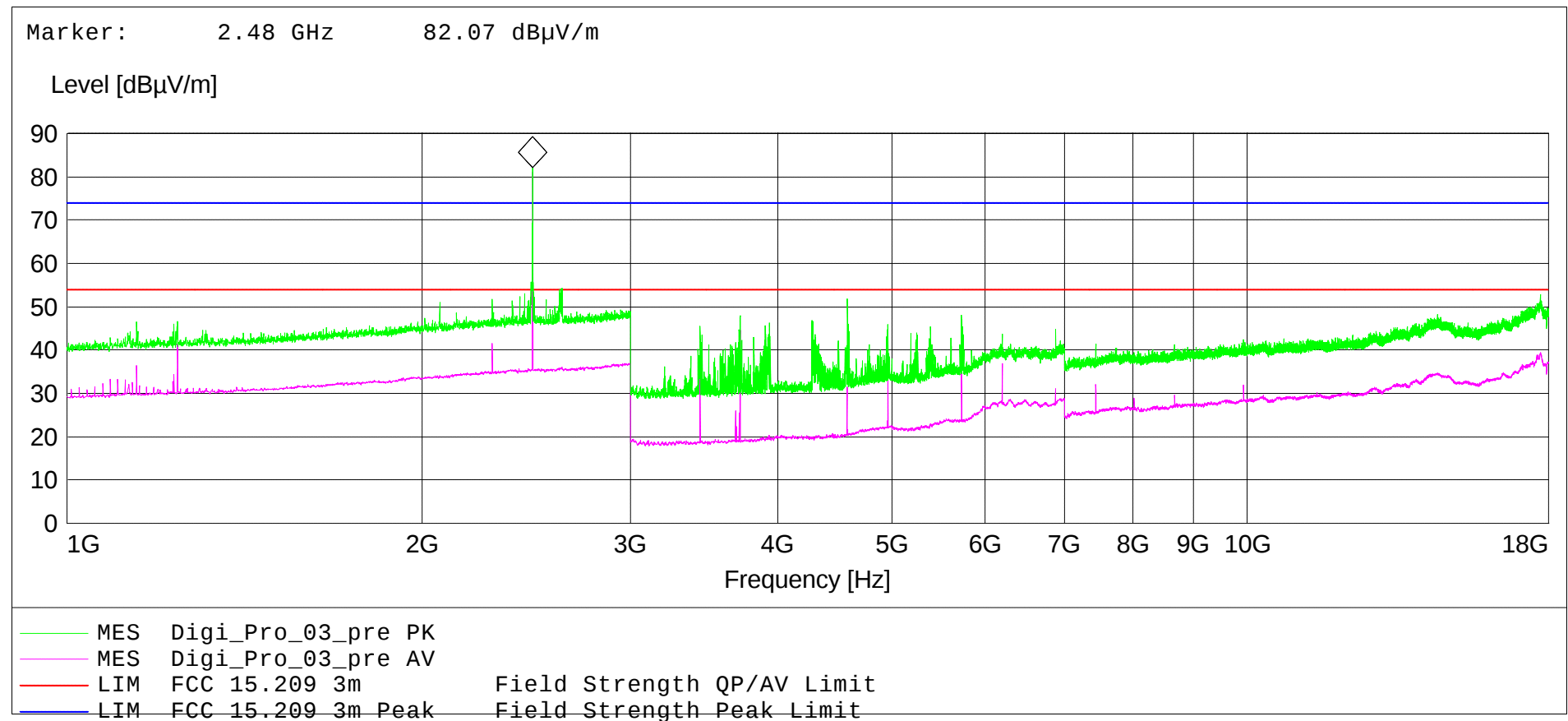
EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer A.S.
Operating Condition: TX on 2402 MHz Ant.01
Test Site: 7 layers Ratingen
Operator: Peu / Sto
Test Specification: FCC 15.249 (15.35b, 15.209)
Comment: vertical + horizontal Polarisation
Start of Test: 05.02.01 / 13:20:45



SPURIOUS EMISSION RADIATED

Diag. 3

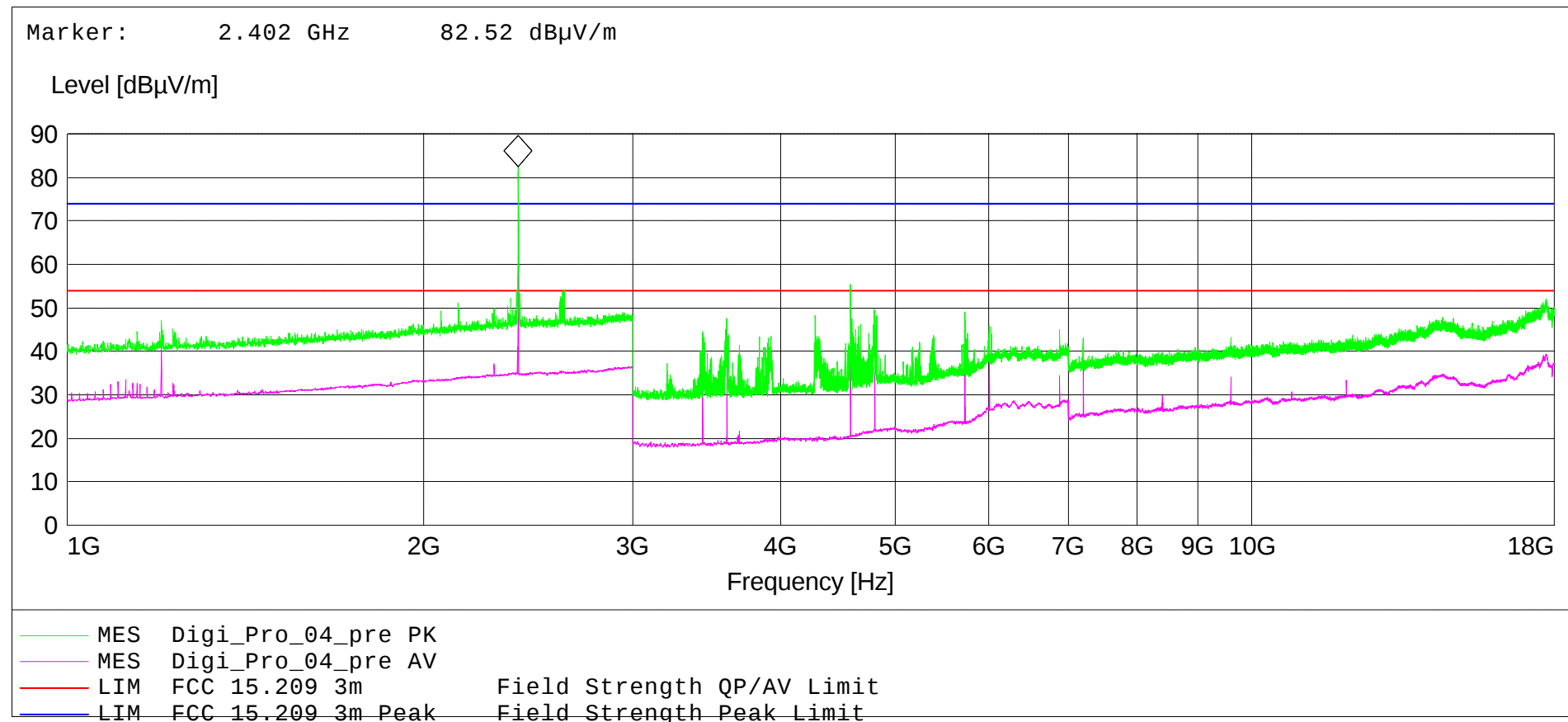
EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer A.S.
Operating Condition: TX on 2480 MHz Ant.01
Test Site: 7 layers Ratingen
Operator: Peu / Sto
Test Specification: FCC 15.249 (15.35b, 15.209)
Comment: vertical + horizontal Polarisation
Start of Test: 05.02.01 / 14:27:53



SPURIOUS EMISSION RADIATED

Diag. 4

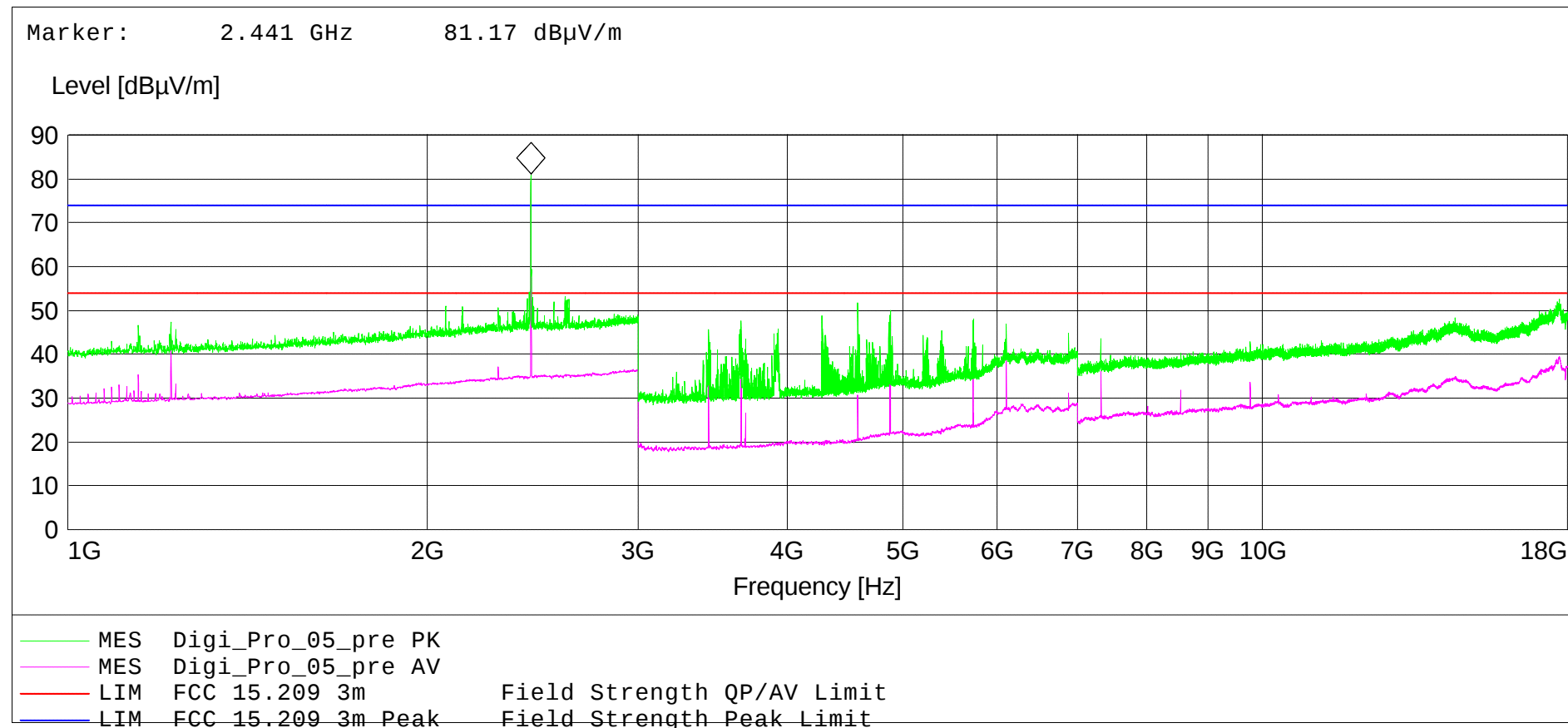
EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer A.S.
Operating Condition: TX on 2402 MHz ; Ant.00
Test Site: 7 layers Ratingen
Operator: Mac/Sto
Test Specification: FCC 15.249 (15.35b, 15.209)
Comment: vertical + horizontal Polarisation
Start of Test: 05.02.01 / 14:48:45



SPURIOUS EMISSION RADIATED

Diag. 5

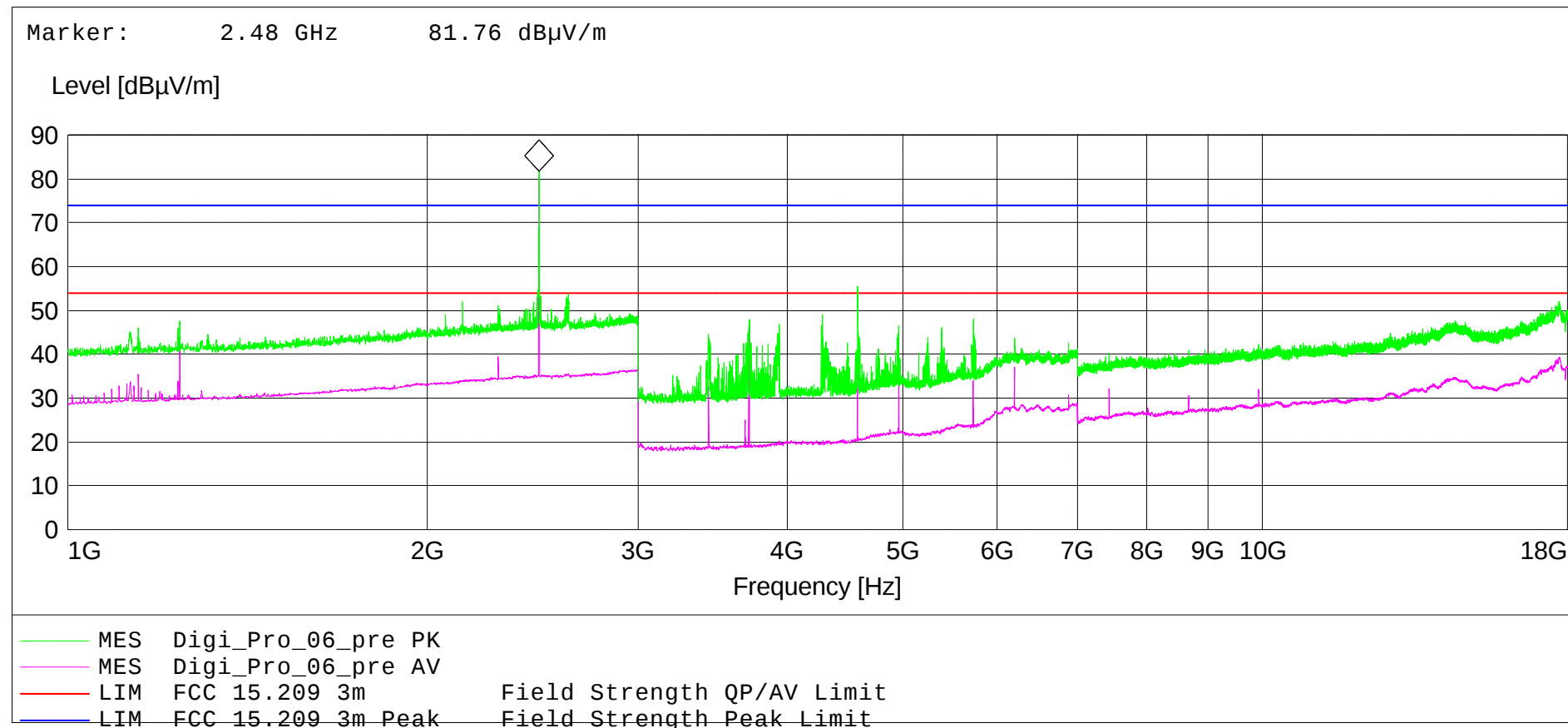
EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer A.S.
Operating Condition: TX on 2441 MHz ; Ant.00
Test Site: 7 layers Ratingen
Operator: Mac/Sto
Test Specification: FCC 15.249 (15.35b, 15.209)
Comment: vertical + horizontal Polarisation
Start of Test: 05.02.01 / 15:29:32



SPURIOUS EMISSION RADIATED

Diag. 6

EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer A.S.
Operating Condition: TX on 2480 MHz ; Ant.00
Test Site: 7 layers Ratingen
Operator: Mac/Sto
Test Specification: FCC 15.249 (15.35b, 15.209)
Comment: vertical + horizontal Polarisation
Start of Test: 05.02.01 / 15:59:07



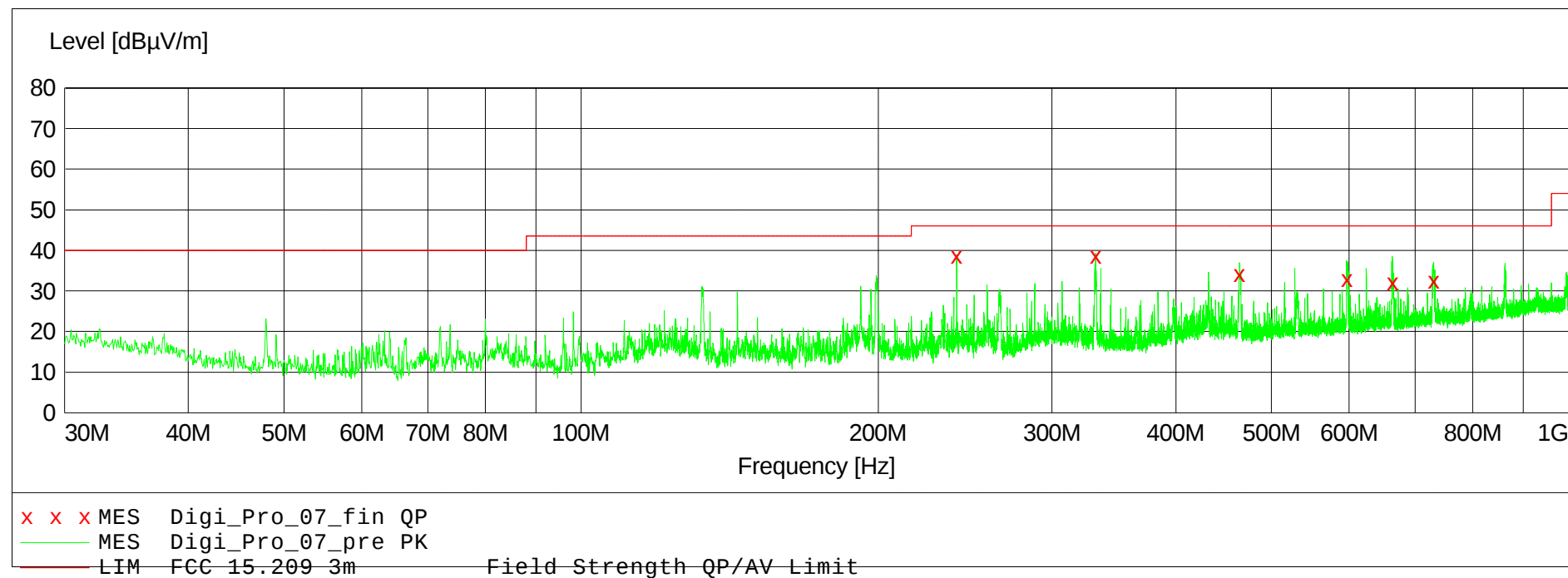
SPURIOUS EMISSION RADIATED

Diag.: 7

EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer
Operating Condition: Tx on 2402 MHz , Ant 00
Test Site: 7 layers, Ratingen
Operator: Mac/Sto
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal polarisation
Start of Test: 05.02.01 / 20:25:02

SCAN TABLE: "FCC 15.249 Field <1G"

Short Description:		EN 55022 Field Strength				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	MaxPeak	100.0 µs	120 kHz	HL562



MEASUREMENT RESULT: "Digi_Pro_07_fin QP"

05.02.01 21:18

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
240.000000	38.80	10.6	46.0	7.2	100.0	-71.00	VERTICAL
331.800000	38.70	13.6	46.0	7.3	100.0	-58.00	VERTICAL
464.040000	34.30	17.3	46.0	11.7	100.0	-94.00	HORIZONTAL
596.460000	33.10	20.0	46.0	12.9	100.0	179.00	VERTICAL
663.420000	32.20	21.1	46.0	13.8	125.0	162.00	VERTICAL
730.440000	32.70	22.1	46.0	13.3	100.0	180.00	VERTICAL

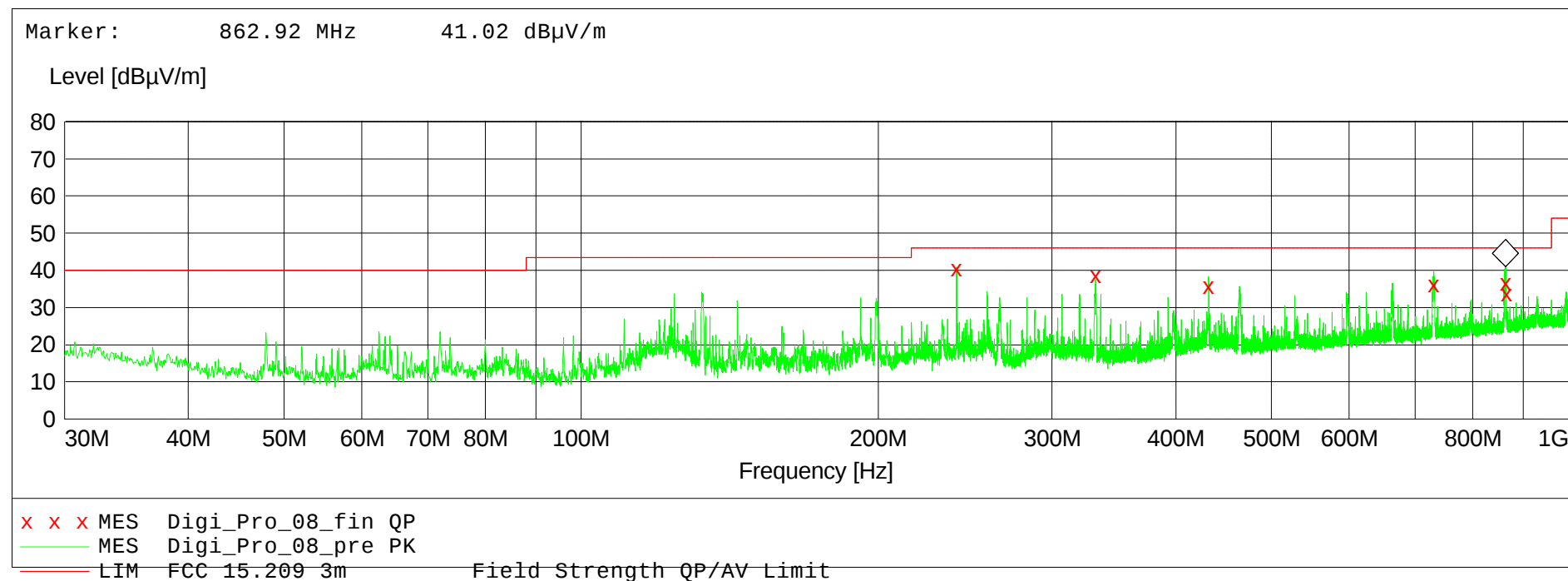
SPURIOUS EMISSION RADIATED

Diag.: 8

EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer
Operating Condition: Tx on 2441 MHz , Ant 00
Test Site: 7 layers, Ratingen
Operator: Mac/Sto
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal polarisation
Start of Test: 05.02.01 / 18:23:26

SCAN TABLE: "FCC 15.249 Field <1G"

Short Description:	EN 55022 Field Strength
Start Stop Step	Detector Meas. IF Transducer
Frequency Frequency Width	Time Bandw.
30.0 MHz 1.0 GHz 60.0 kHz	MaxPeak 100.0 µs 120 kHz HL562



MEASUREMENT RESULT: "Digi_Pro_08_fin QP"

05.02.01 19:20

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
240.000000	40.40	10.6	46.0	5.6	100.0	-84.00	VERTICAL
331.800000	38.60	13.6	46.0	7.4	100.0	-51.00	VERTICAL
432.000000	35.80	16.3	46.0	10.2	100.0	59.00	VERTICAL
730.500000	36.30	22.1	46.0	9.7	100.0	169.00	VERTICAL
862.920000	36.70	23.4	46.0	9.3	100.0	7.00	VERTICAL
864.960000	33.90	23.5	46.0	12.1	115.0	-3.00	VERTICAL

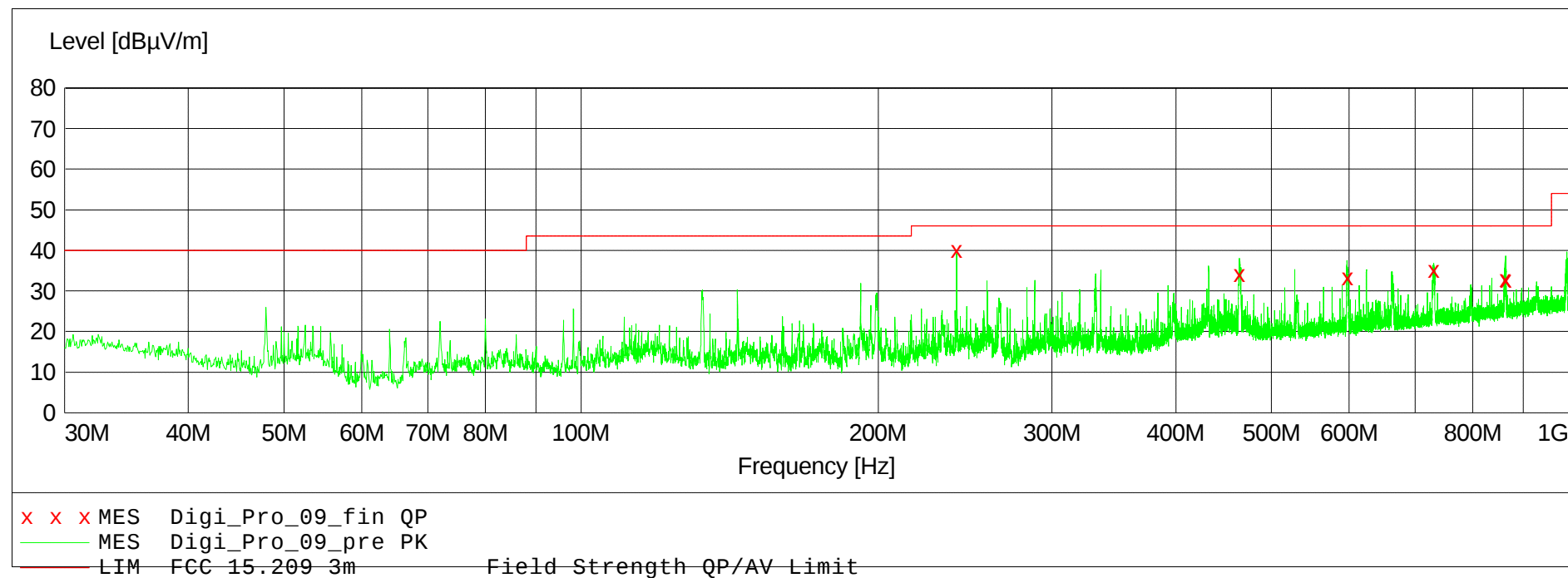
SPURIOUS EMISSION RADIATED

Diag.: 9

EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer
Operating Condition: Tx on 2480 MHz , Ant 00
Test Site: 7 layers, Ratingen
Operator: Mac/Sto
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal polarisation
Start of Test: 05.02.01 / 19:28:05

SCAN TABLE: "FCC 15.249 Field <1G"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	MaxPeak	100.0 µs	120 kHz	HL562



MEASUREMENT RESULT: "Digi_Pro_09_fin QP"

05.02.01 20:22

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
240.000000	40.20	10.6	46.0	5.8	112.0	-58.00	VERTICAL
463.980000	34.30	17.3	46.0	11.7	100.0	-103.00	HORIZONTAL
596.880000	33.30	20.0	46.0	12.7	100.0	179.00	VERTICAL
729.900000	35.20	22.1	46.0	10.8	100.0	172.00	VERTICAL
861.720000	33.00	23.4	46.0	13.0	109.0	5.00	VERTICAL
863.640000	32.80	23.5	46.0	13.2	100.0	9.00	VERTICAL

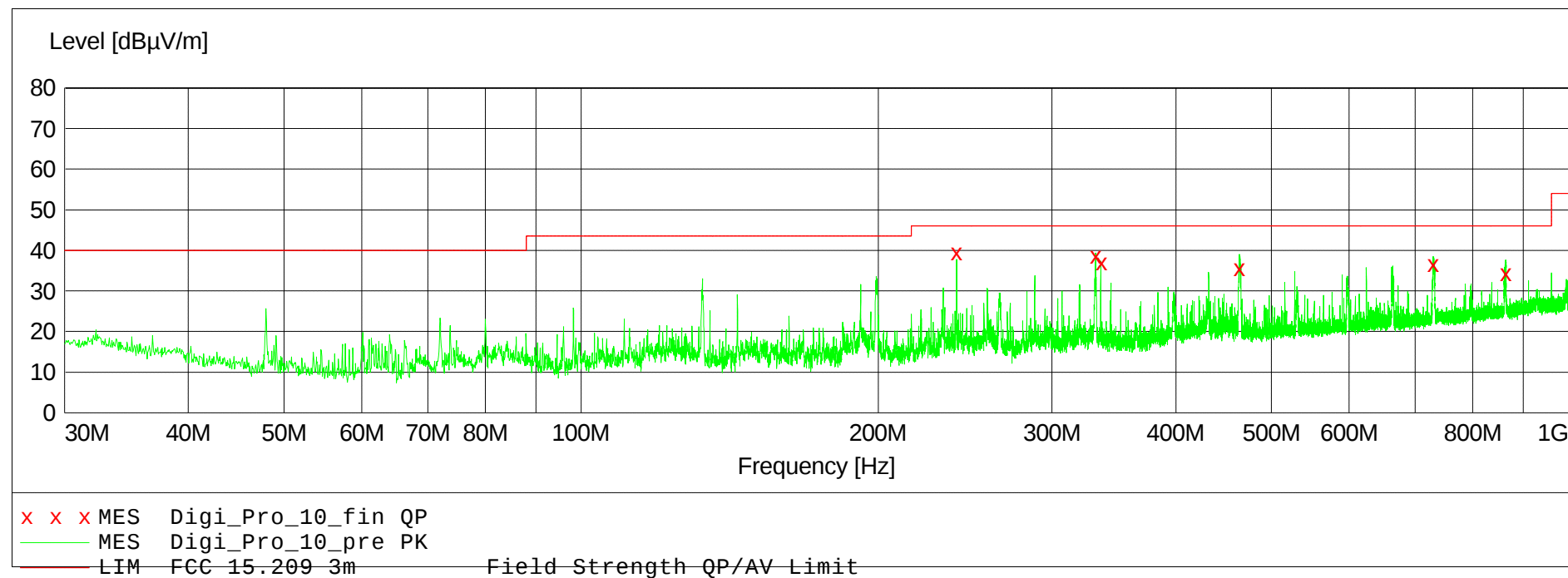
SPURIOUS EMISSION RADIATED

Diag.:10

EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer
Operating Condition: Tx on 2402 MHz , Ant 01
Test Site: 7 layers, Ratingen
Operator: Mac/Sto
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal polarisation
Start of Test: 05.02.01 / 21:22:18

SCAN TABLE: "FCC 15.249 Field <1G"

Short Description:		EN 55022 Field Strength				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	MaxPeak	100.0 µs	120 kHz	HL562



MEASUREMENT RESULT: "Digi_Pro_10_fin QP"

05.02.01 22:15

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
240.000000	39.50	10.6	46.0	6.5	104.0	-67.00	VERTICAL
331.800000	38.70	13.6	46.0	7.3	102.0	-66.00	VERTICAL
336.000000	37.00	13.8	46.0	9.0	103.0	-111.00	VERTICAL
464.040000	35.70	17.3	46.0	10.3	154.0	-71.00	HORIZONTAL
729.600000	36.60	22.1	46.0	9.4	102.0	-103.00	VERTICAL
863.160000	34.40	23.4	46.0	11.6	100.0	-133.00	VERTICAL

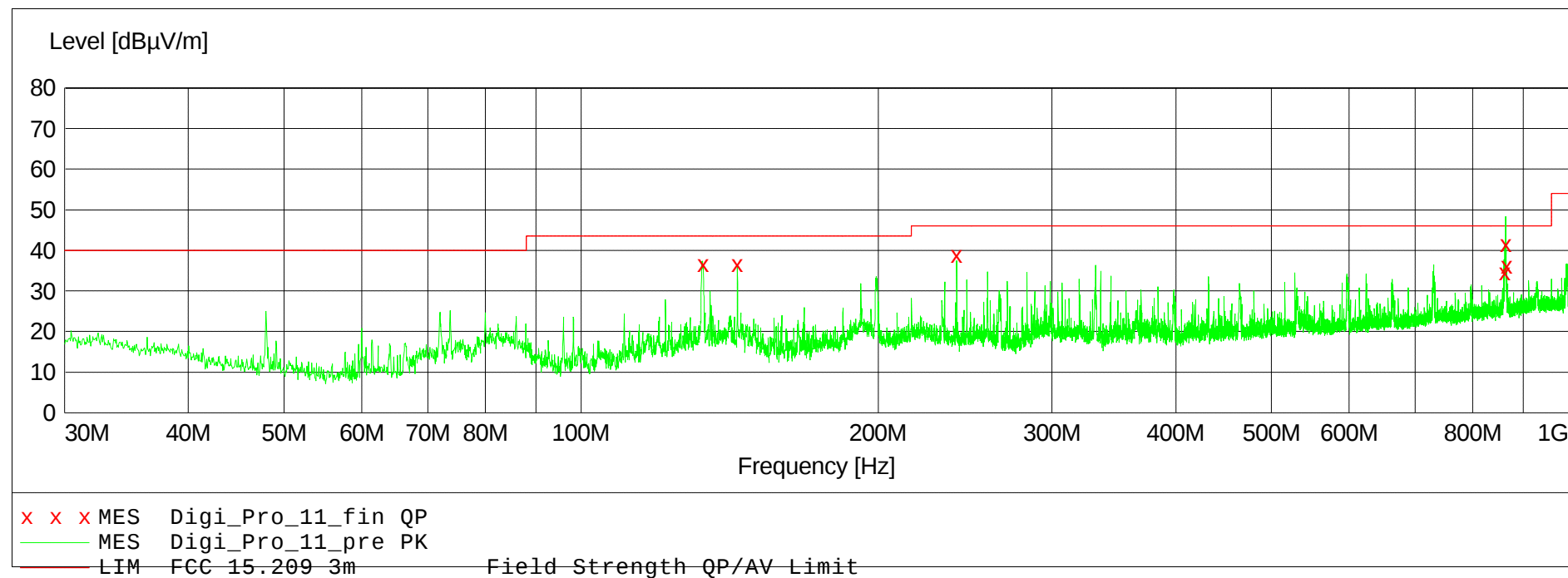
SPURIOUS EMISSION RADIATED

Diag.: 11

EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer
Operating Condition: Tx on 2441 MHz , Ant 01
Test Site: 7 layers, Ratingen
Operator: Peu/Sto
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal polarisation
Start of Test: 06.02.01 / 11:38:43

SCAN TABLE: "FCC 15.249 Field <1G"

Short Description:		EN 55022 Field Strength				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	MaxPeak	100.0 µs	120 kHz	HL562



MEASUREMENT RESULT: "Digi_Pro_11_fin QP"

06.02.01 12:22

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
132.720000	36.70	9.8	43.5	6.8	100.0	12.00	VERTICAL
144.000000	36.70	8.9	43.5	6.8	103.0	113.00	VERTICAL
240.000000	38.90	10.6	46.0	7.1	100.0	-46.00	VERTICAL
860.760000	34.60	23.4	46.0	11.4	103.0	104.00	HORIZONTAL
862.980000	41.60	23.4	46.0	4.4	103.0	113.00	HORIZONTAL
864.960000	36.20	23.5	46.0	9.8	103.0	123.00	HORIZONTAL

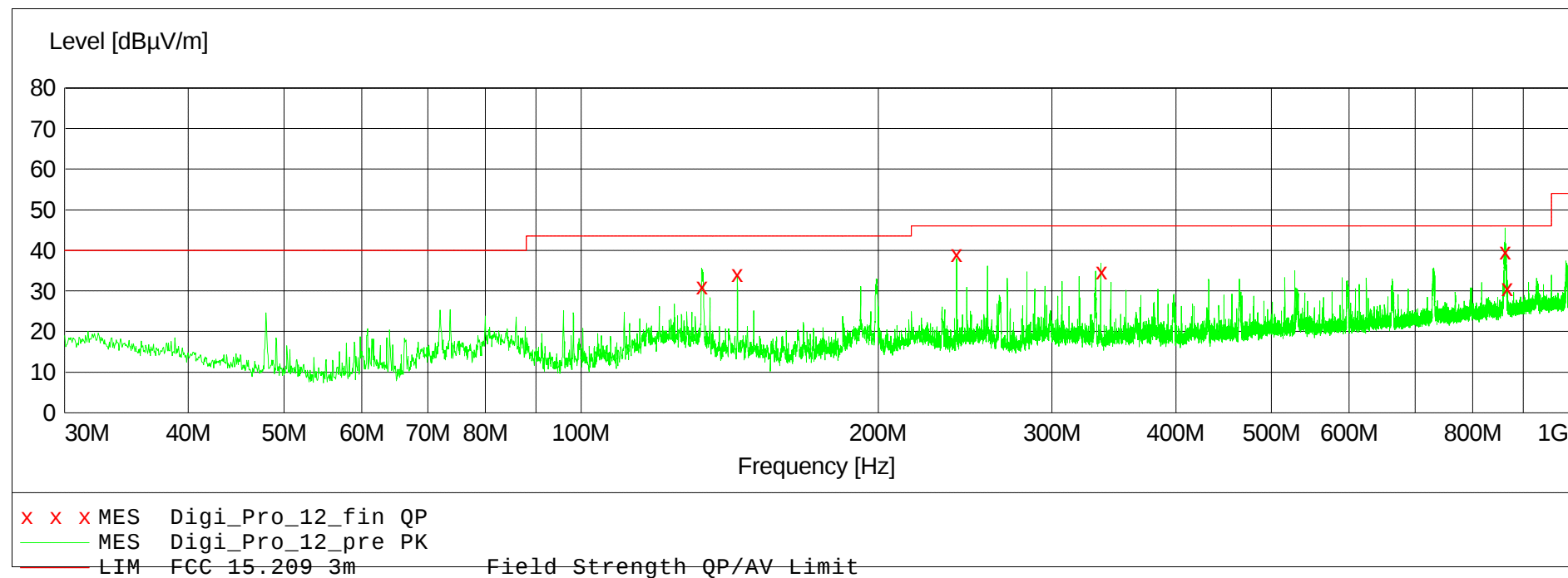
SPURIOUS EMISSION RADIATED

Diag.: 12

EUT: Protocol Analyser / 05.02.2001
Manufacturer: Digianswer
Operating Condition: Tx on 2480 MHz , Ant 01
Test Site: 7 layers, Ratingen
Operator: Peu/Sto
Test Specification: FCC 15.247 (15.35b, 15.209)
Comment: vertical + horizontal polarisation
Start of Test: 06.02.01 / 12:28:09

SCAN TABLE: "FCC 15.249 Field <1G"

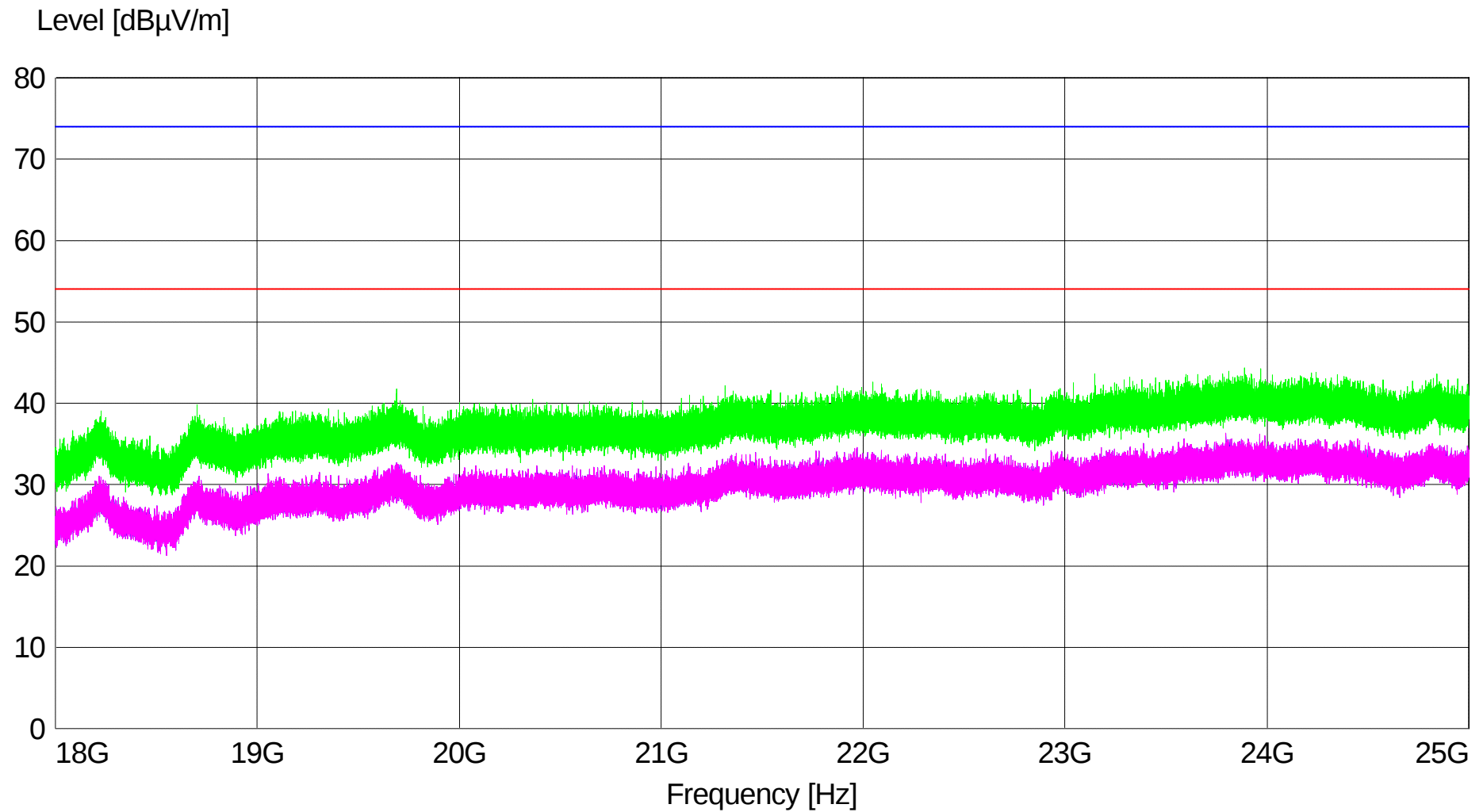
Short Description: EN 55022 Field Strength
Start Stop Step Detector Meas. IF Transducer
Frequency Frequency Width Time Bandw.
30.0 MHz 1.0 GHz 60.0 kHz MaxPeak 100.0 μ s 120 kHz HL562



MEASUREMENT RESULT: "Digi_Pro_12_fin QP"

06.02.01 13:32

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
132.540000	31.20	9.9	43.5	12.3	100.0	27.00	VERTICAL
144.000000	34.30	8.9	43.5	9.2	100.0	122.00	VERTICAL
240.000000	39.10	10.6	46.0	6.9	100.0	-42.00	VERTICAL
336.000000	34.90	13.8	46.0	11.1	100.0	-101.00	VERTICAL
862.020000	39.70	23.4	46.0	6.3	100.0	112.00	HORIZONTAL
865.920000	30.70	23.5	46.0	15.3	100.0	109.00	HORIZONTAL



MES	Digi_Pro_14_pre PK	
MES	Digi_Pro_14_pre AV	
LIM	FCC 15.209 3m	Field Strength QP/AV Limit
LIM	FCC 15.209 3m Peak	Field Strength Peak Limit
MES	STD_SUB2	