

品名：RFFPA494217EM6B901

History List

[illegible]

品名：RFFPA494217EM6B901

1. Explanation of part number：

RF	FPA	4942	17	E	M	6	B	9	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	FPC Antenna	Per 2 digits of length, width e.g.: 2813 Length 28mm, Width 13.1mm	2 digits for cable length e.g.: 12 Length 12.5cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band W: WCDMA band	B: MP T: During Test X: Pile Run	0:None 1:∅ 0.81 2:∅ 1.32 3:∅ 1.13 4:Low Loss ∅ 1.13 5:∅ 0.5 6:RG316 7: ∅ 1.37 8:RG178 9:Low Loss ∅ 1.37	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	5925~7125 MHz
Return Loss	9.3 dB(Max)
Gain(peak)	8.37 dBi
VSWR	2.2(Max)
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20℃ ~ +65℃

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE：N/A

UNIT：mm

DRAWN BY：李欣樺

CHECKED BY：詹惠雯

DESIGNED BY：黃瑞郎

APPROVED BY：陳振榮

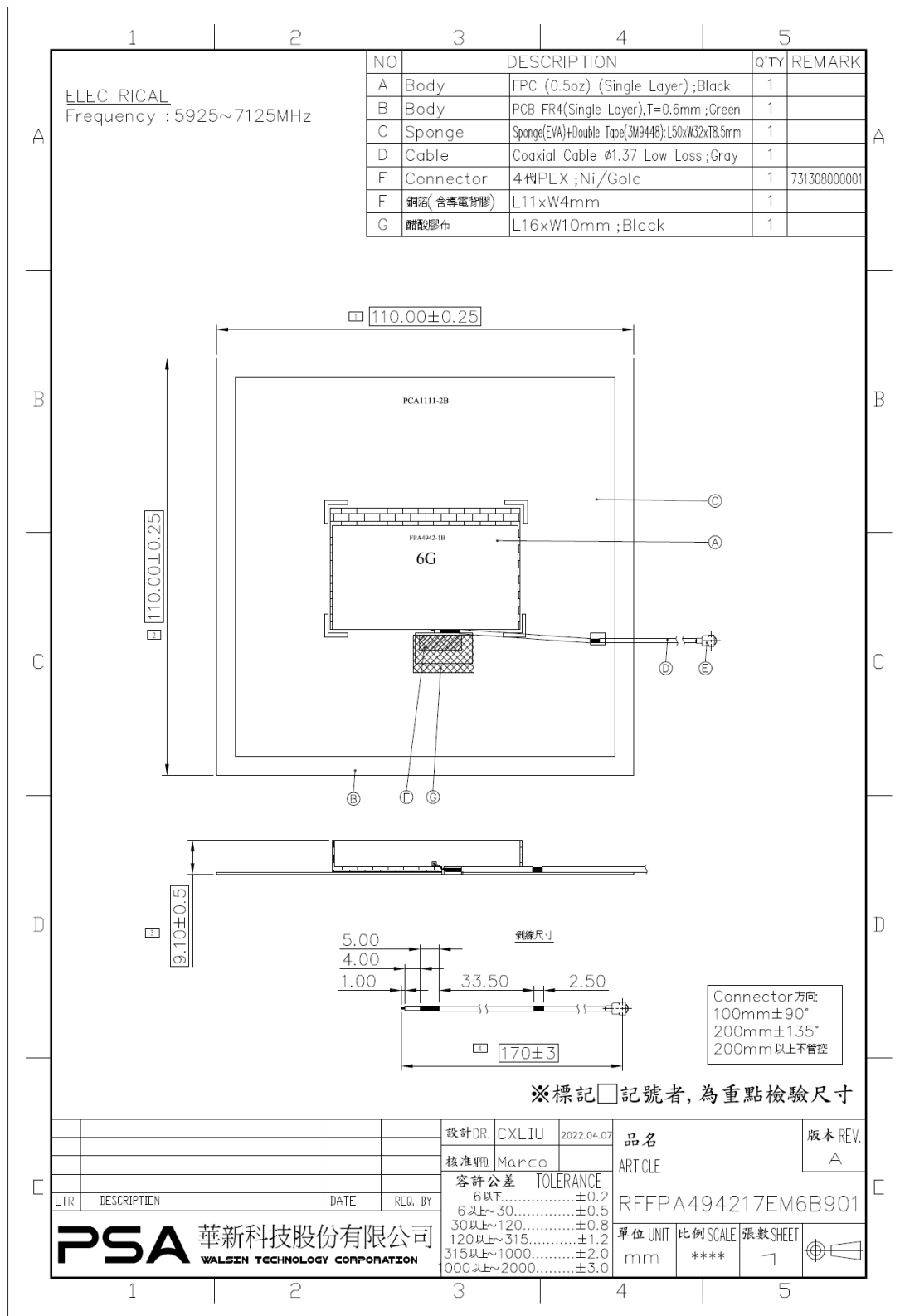
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3. Antenna Drawing :



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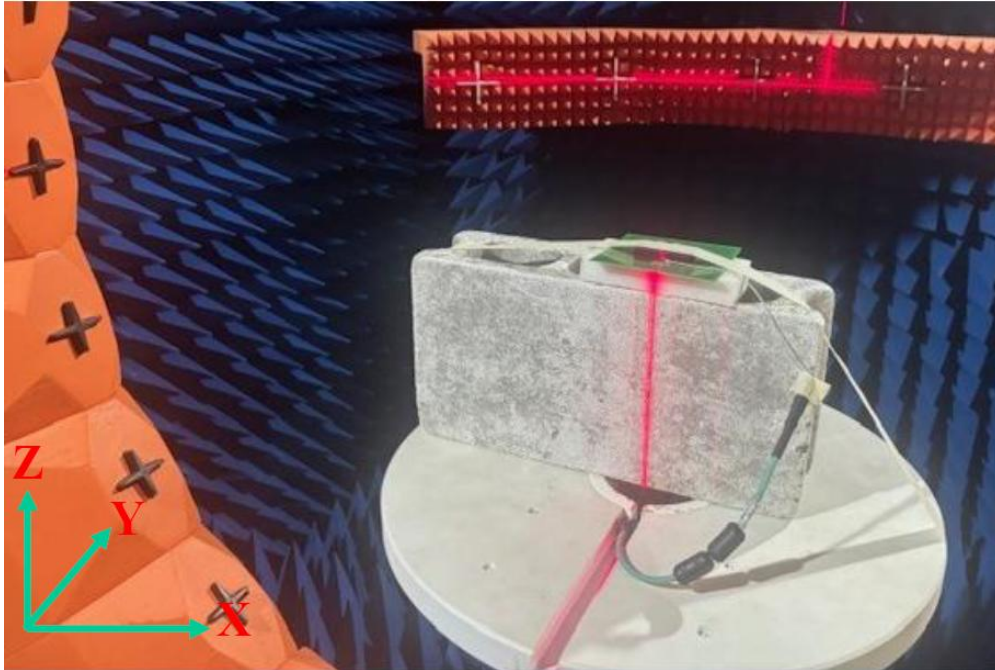
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4. Performance Report :

Test Report

■ Experimental Setup



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■ Antenna Solution Detail



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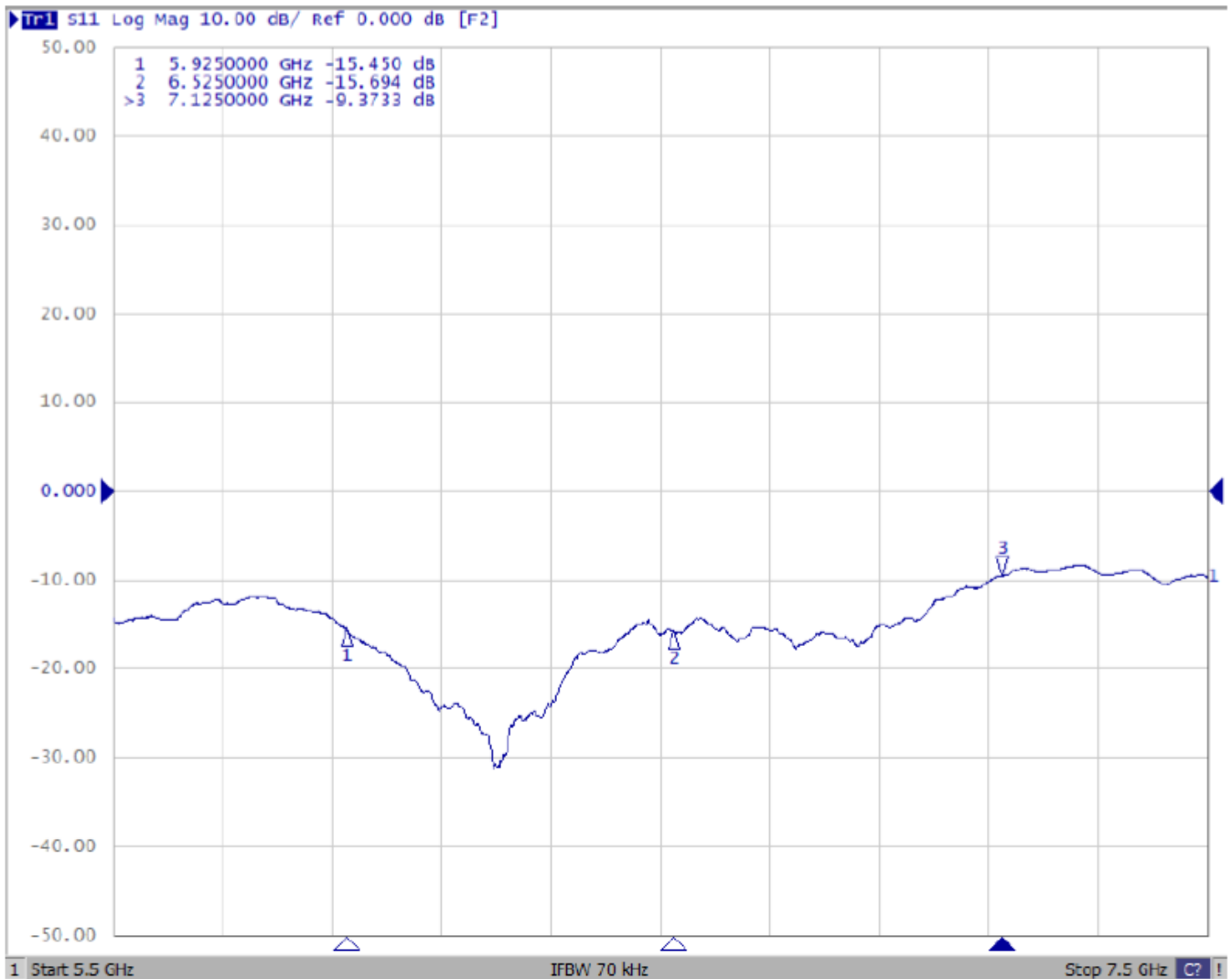
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ELECTRICAL CHARACTERISTICS

Return Loss



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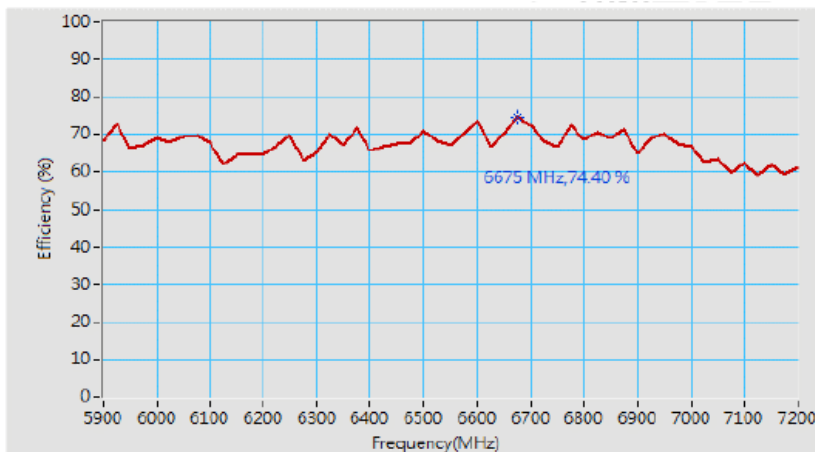
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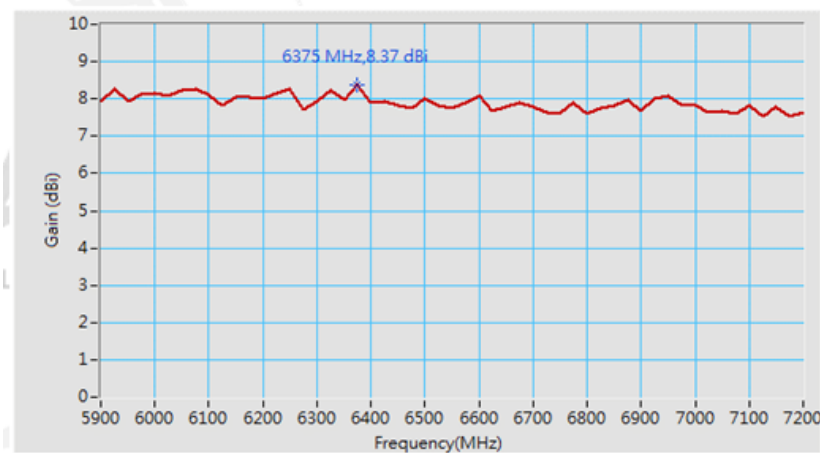
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■ Antenna Efficiency & Peak Gain

5925~7125 MHz



Maximum Efficiency at 6675 MHz : 74.40 %



Maximum Peak Gain at 6375 MHz : 8.37 dBi

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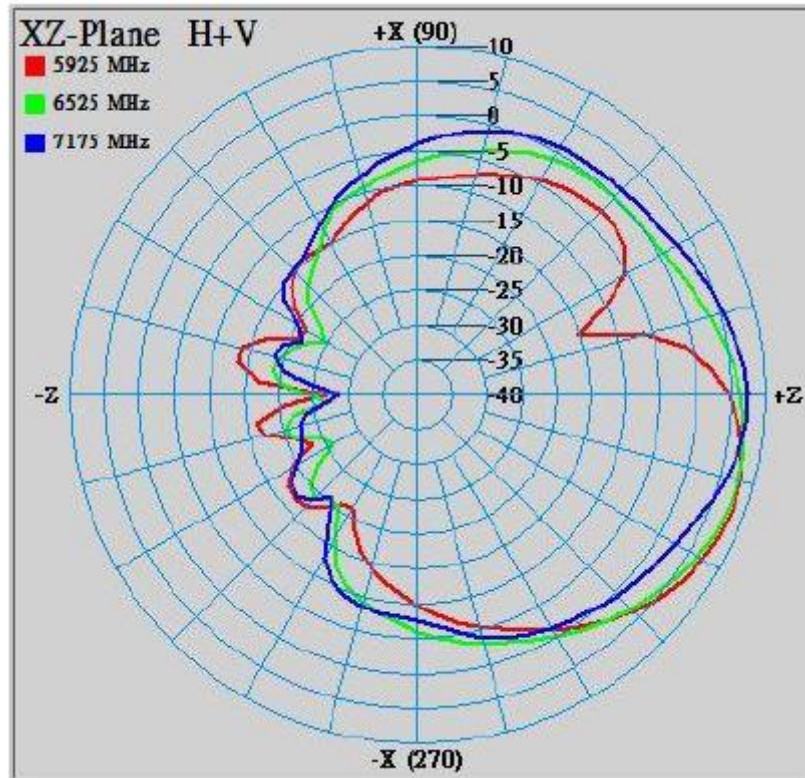
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RADIATION PATTERN

5925~7125 MHz

Phi=0.00deg

Gain . dBi



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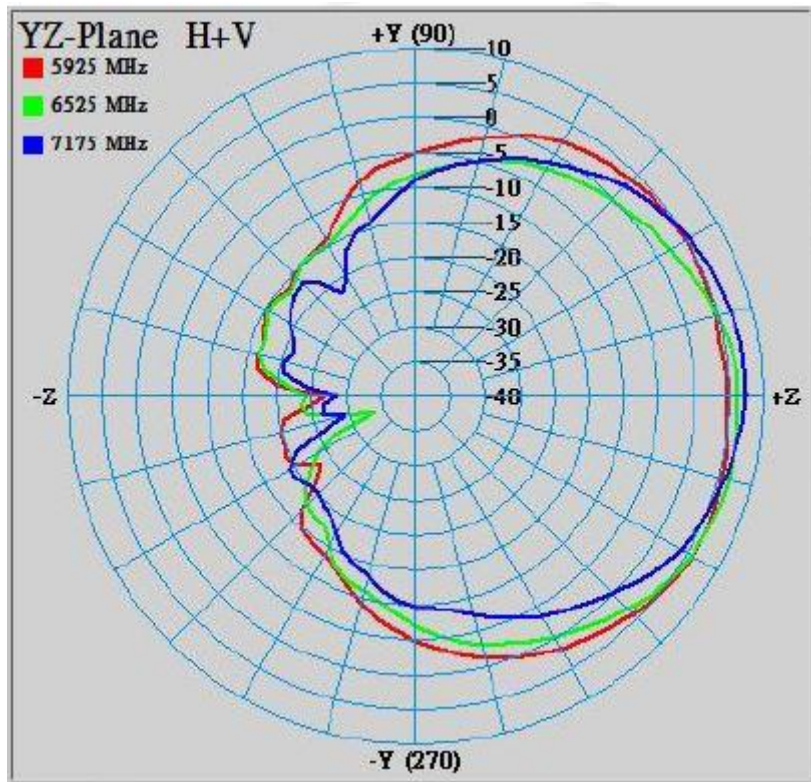
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Phi=90.00deg

Gain . dBi



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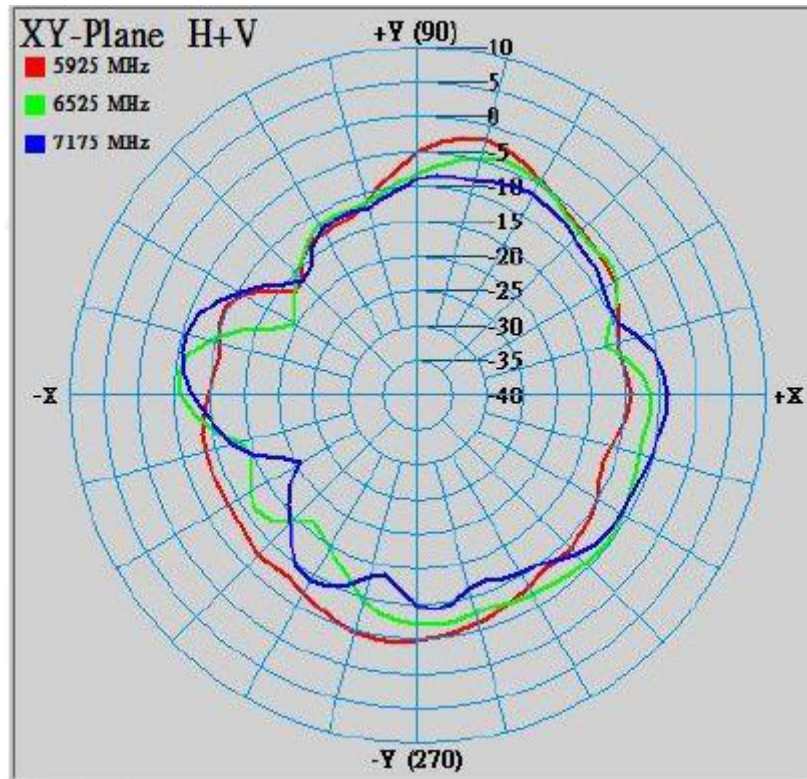
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Theta=90.00deg

Gain . dBi



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5925	8.21	-0.66	6.06	0.58	-2.22	-7.5
6525	7.7	0.19	6.72	-0.02	-3.98	-8.16
7125	7.44	-0.01	7.49	0.24	-4	-8.65

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