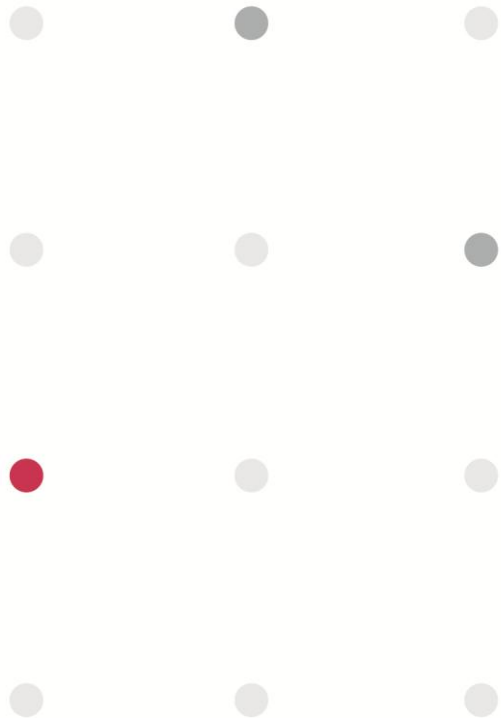


PSA

佳邦科技股份有限公司

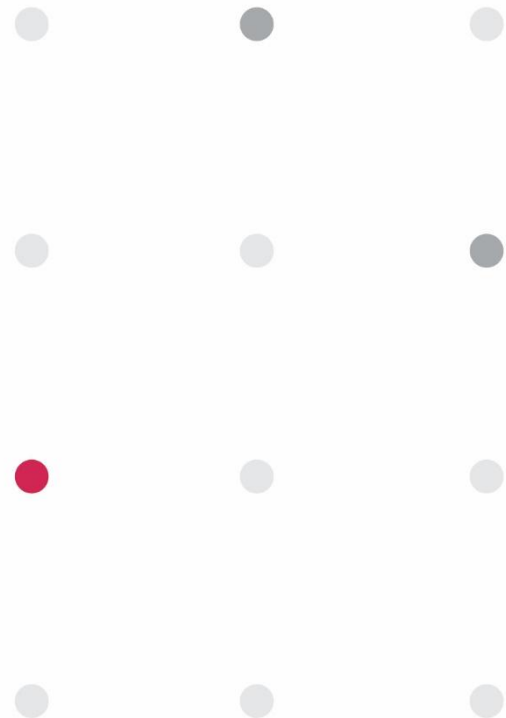
INPAQ TECHNOLOGY CO., LTD.

WE CONNECT & WE PROTECT WE ARE ONE



PSA

PASSIVE SYSTEM ALLIANCE
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盟創-EE4210-00

Presented by
Iven

INPAQ Technology Co., Ltd.

Last updated in 06.11, 2026



Version	Date	Description	Author
V01	2025/12/02	New Release	Bil
V02	2026/01/29	搭配正式版子與走線調測天線	Bil
V03	2026/06/11	工廠樣機台測試	Iven

OUTLINE

1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 S-Parameter

2.2 Antenna Efficiency and Peak Gain

2.3 3 views of antenna & 2D Radiation Patterns

3. Summary

Model number of the antenna

Part Number	INPAQ Part Number
56-001-000924Z	WA-P-LF-11-003
56-001-000925Z	WA-P-LB-15-009
56-001-000926Z	WA-P-LB-05-055
56-001-000927Z	WA-P-LF-01-024

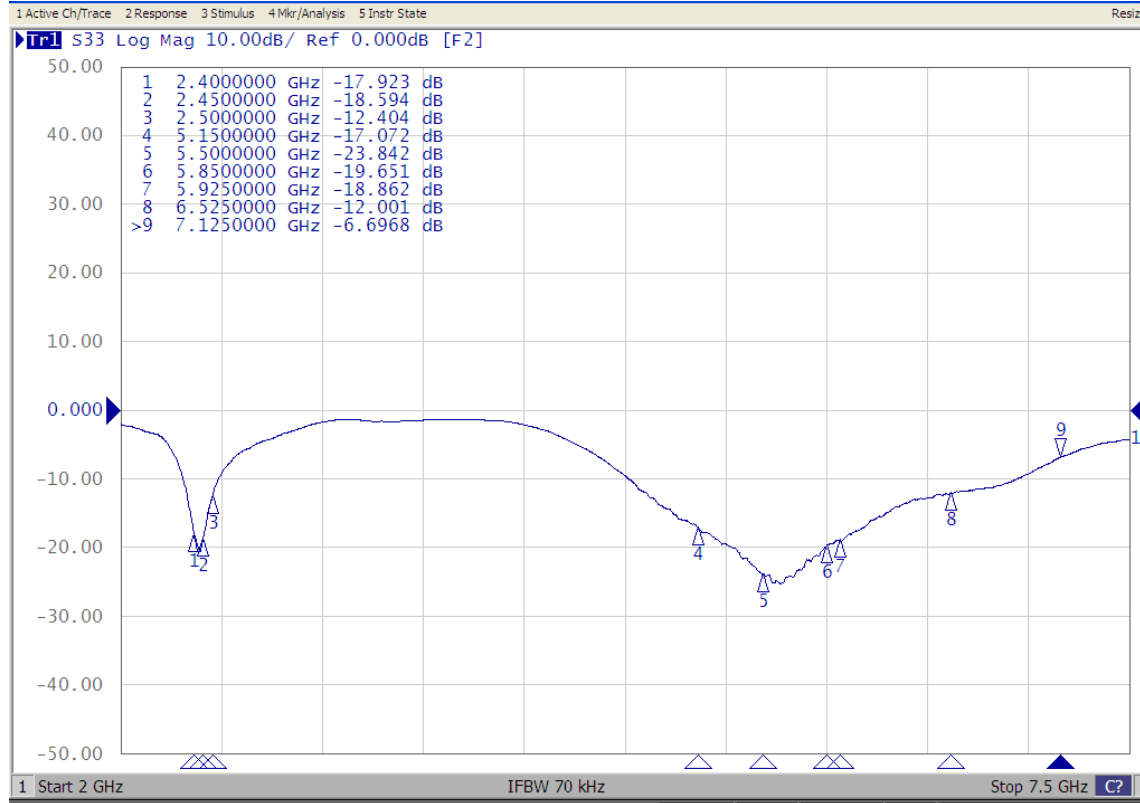
Address of the antenna manufacturer:

NO.11, KE-YI ST., CHUNAN TOWN, MIAOLI COUNTY 350402, TAIWAN,
R.O.C.

2. Antenna Characteristics

DB1

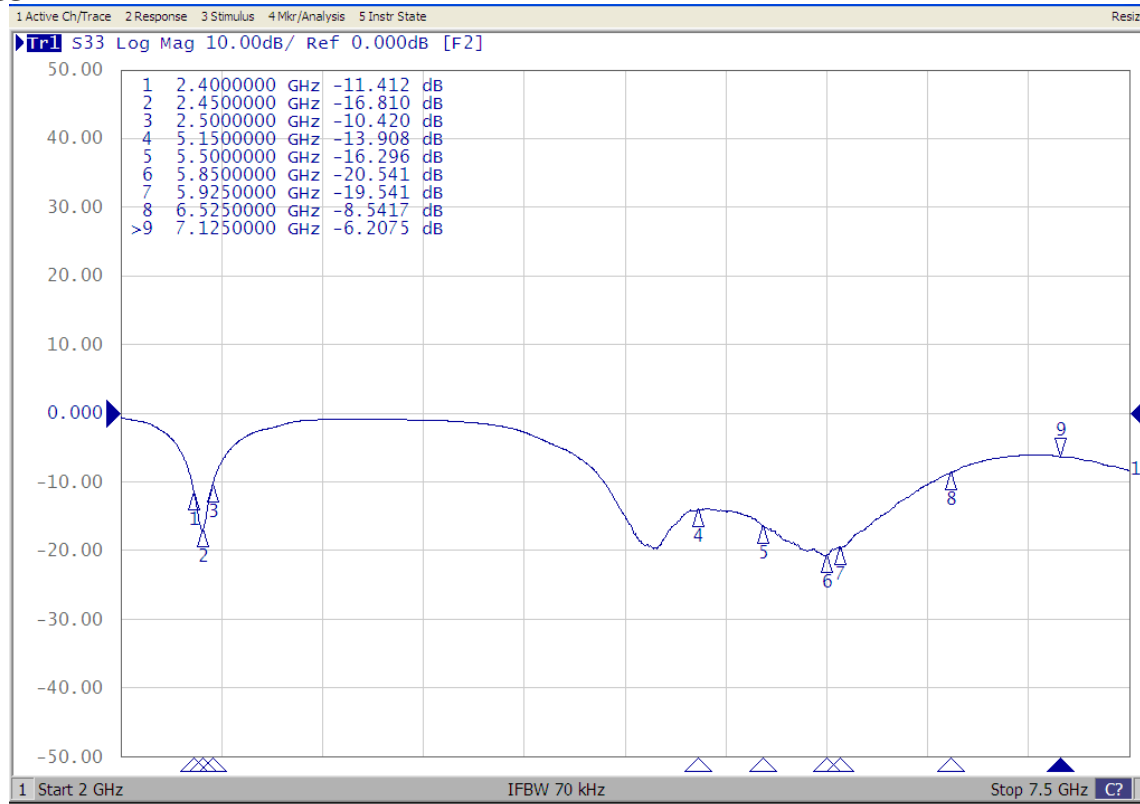
2.1 S-Parameter



2. Antenna Characteristics

DB2

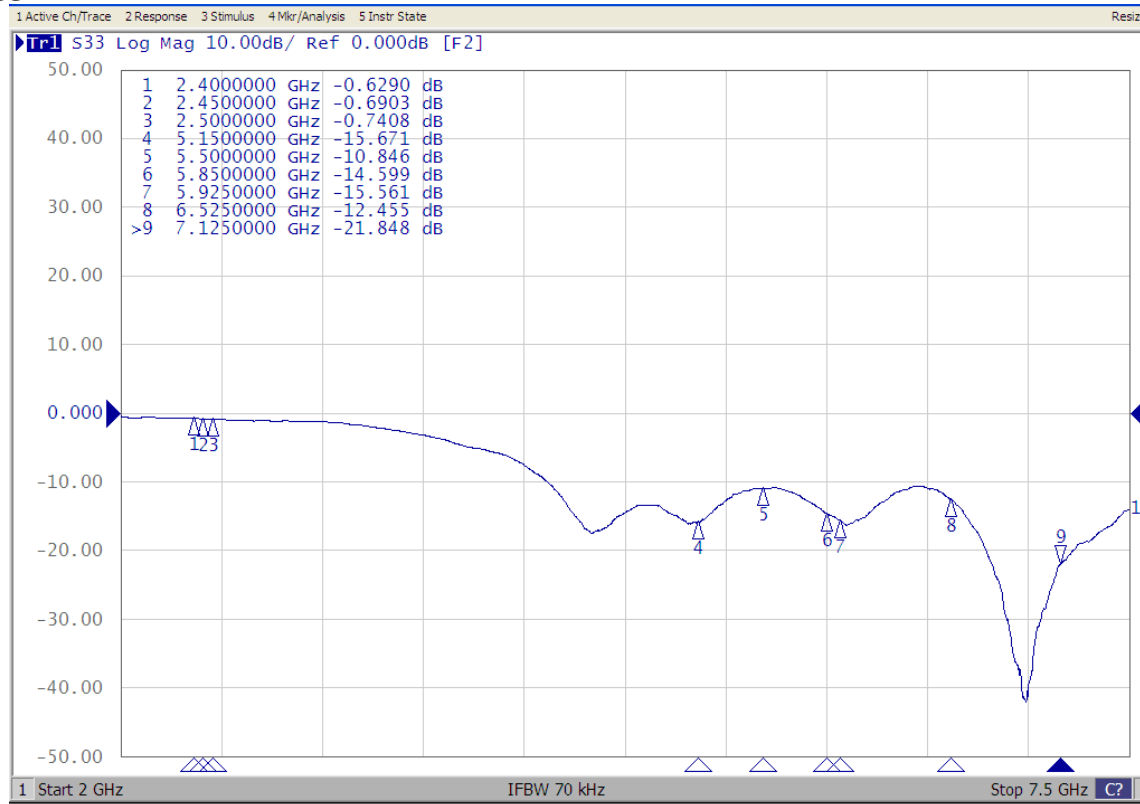
2.1 S-Parameter



2. Antenna Characteristics

6G1

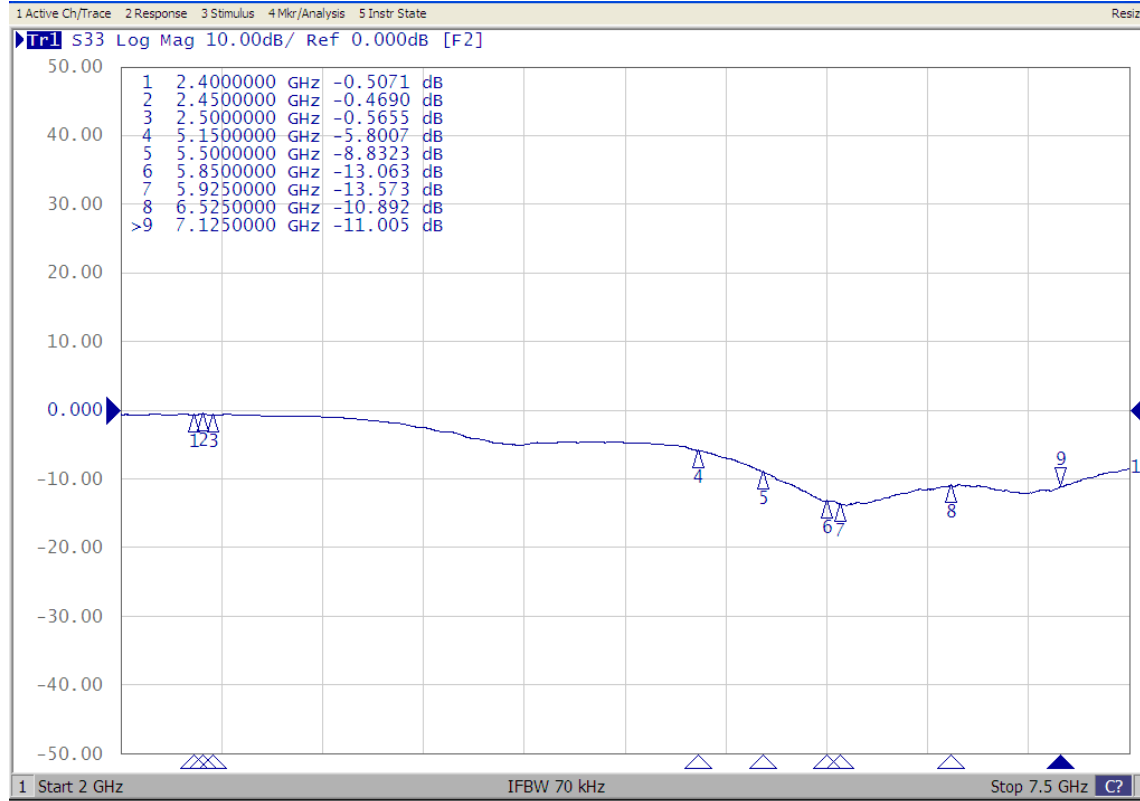
2.1 S-Parameter



2. Antenna Characteristics

6G2

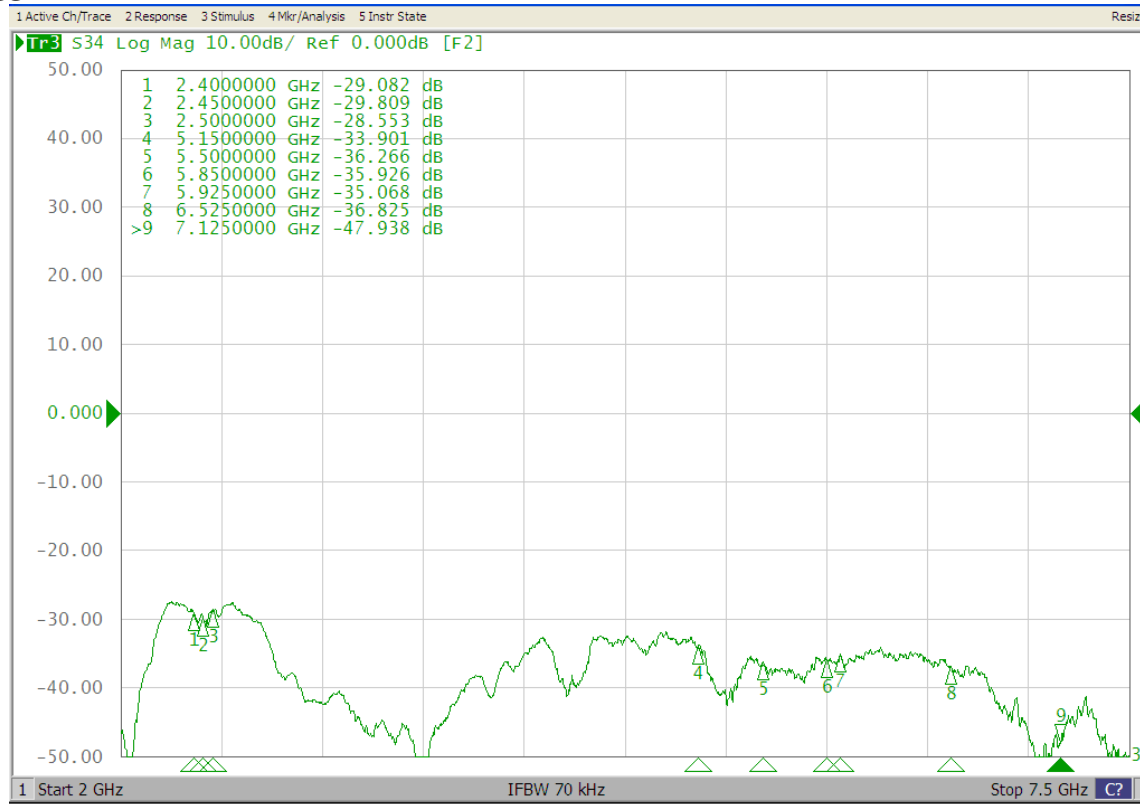
2.1 S-Parameter



2. Antenna Characteristics

DB1 to DB2

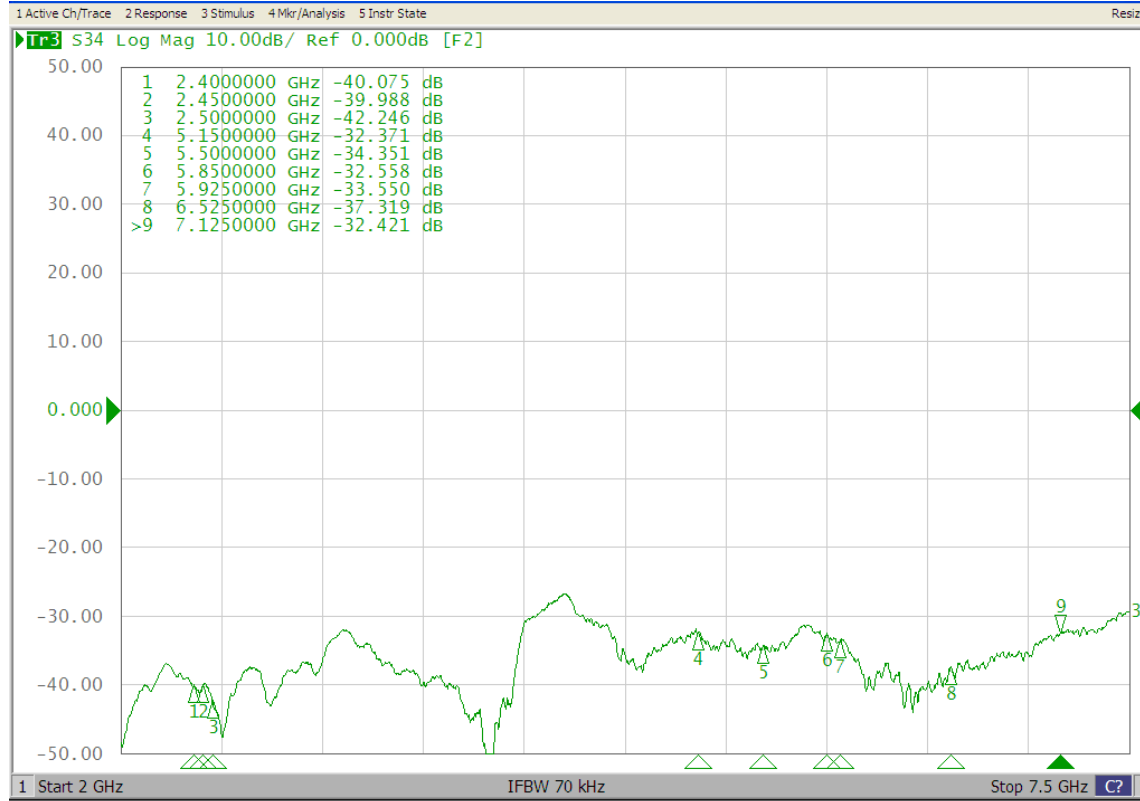
2.1 S-Parameter



2. Antenna Characteristics

DB1 to 6G1

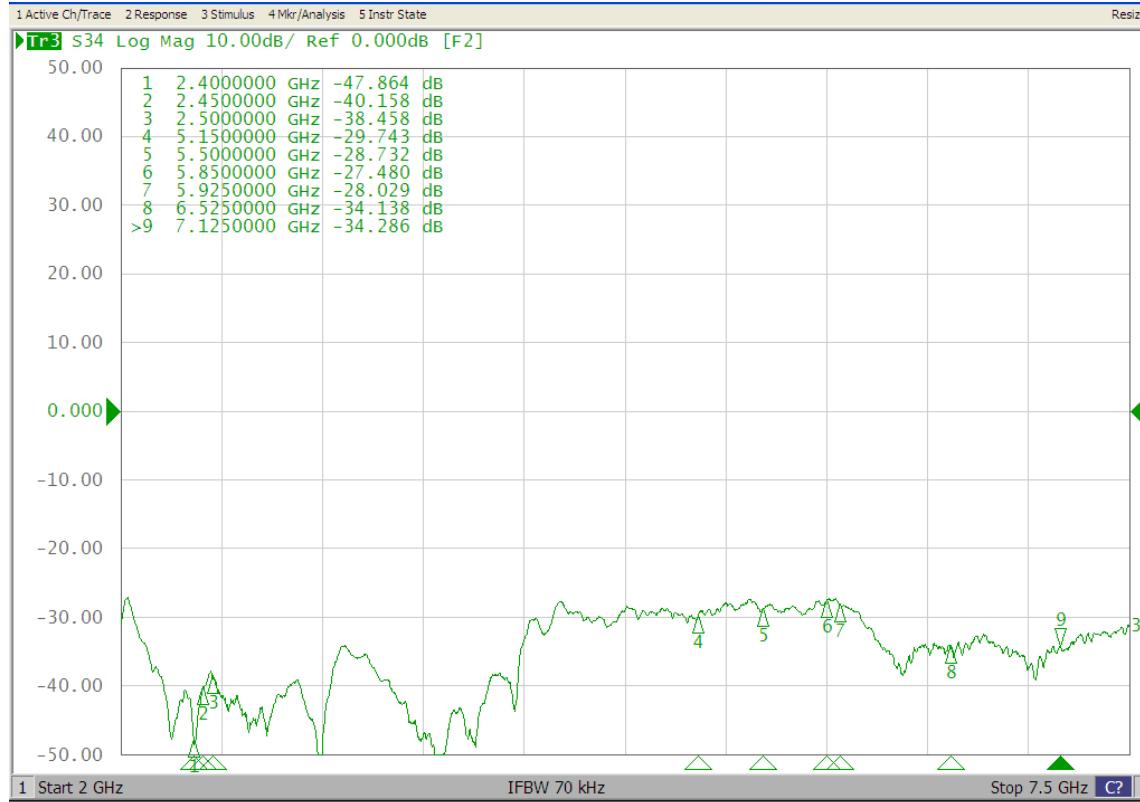
2.1 S-Parameter



2. Antenna Characteristics

DB1 to 6G2

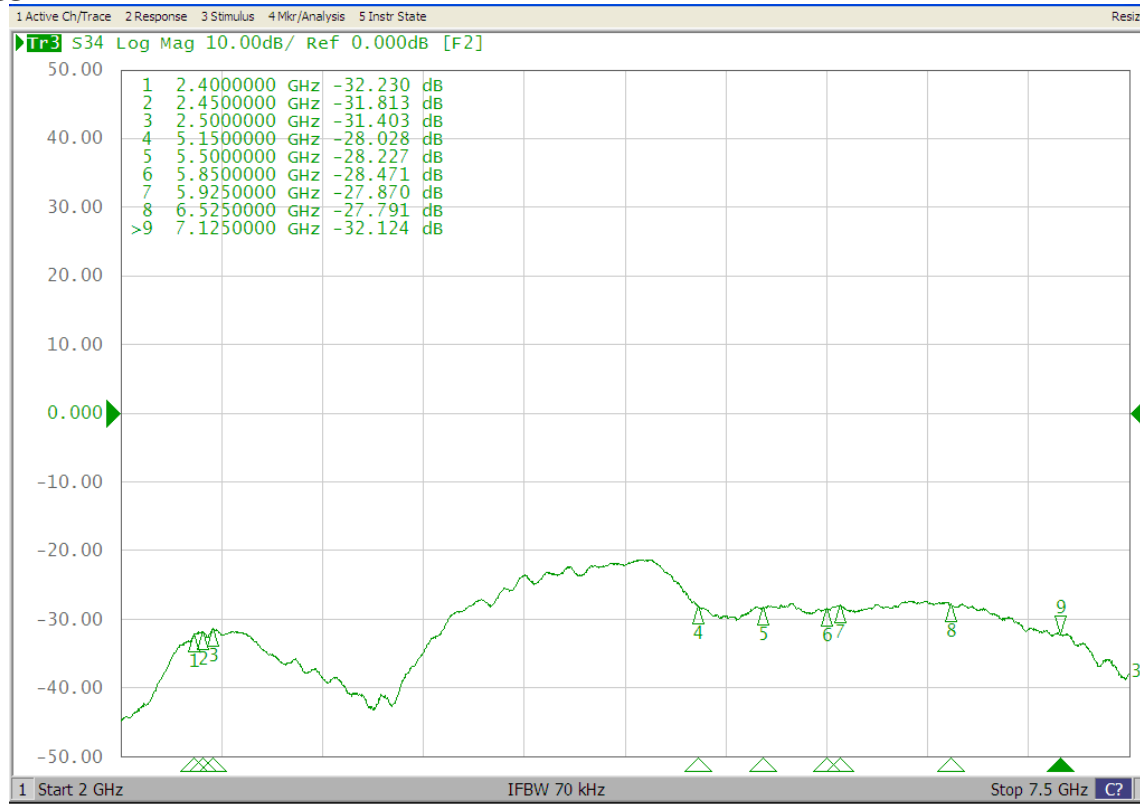
2.1 S-Parameter



2. Antenna Characteristics

DB2 to 6G1

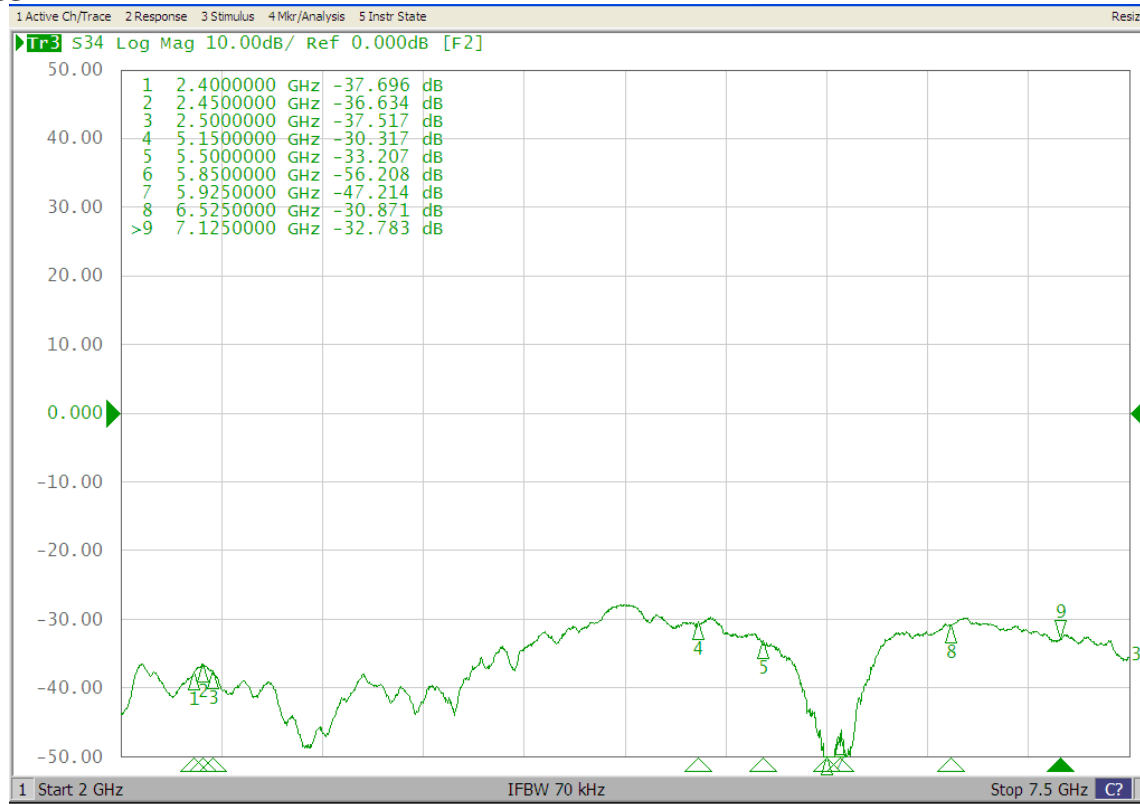
2.1 S-Parameter



2. Antenna Characteristics

DB2 to 6G2

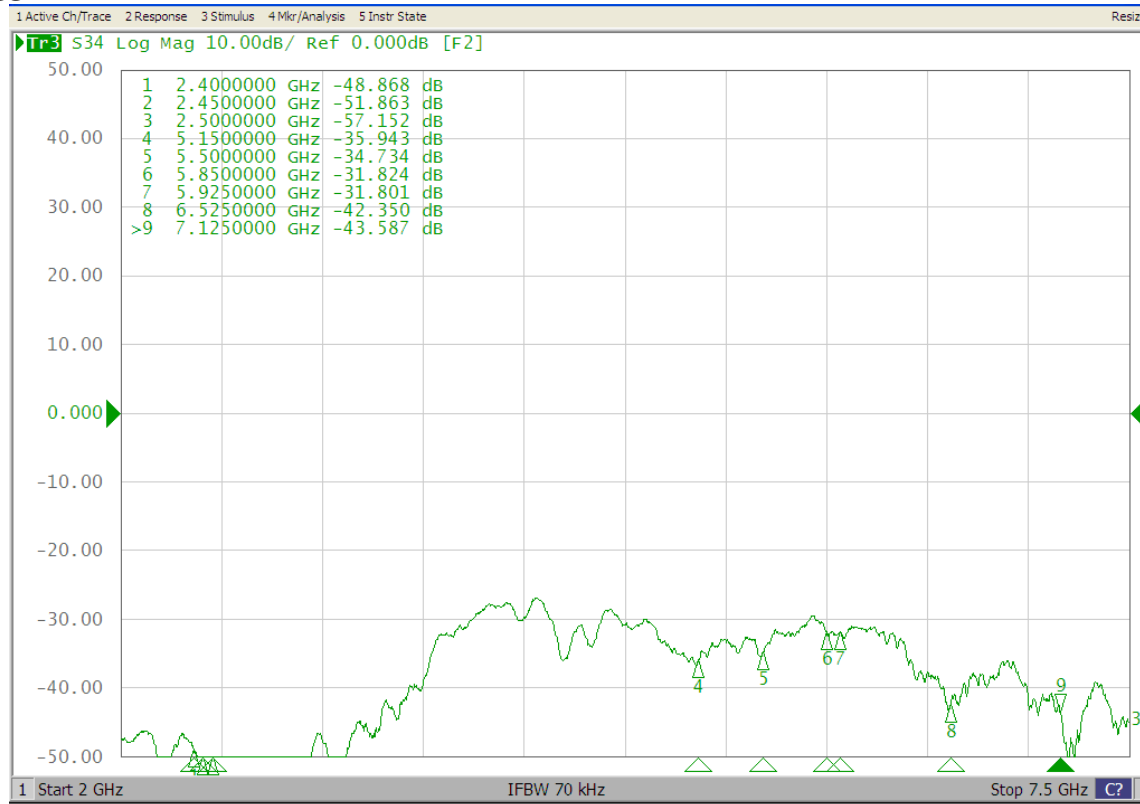
2.1 S-Parameter



2. Antenna Characteristics

6G1 to 6G2

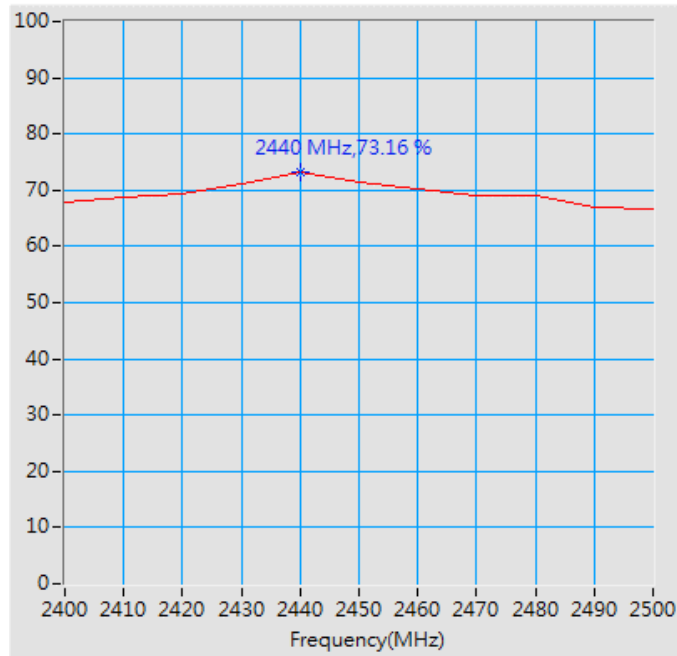
2.1 S-Parameter



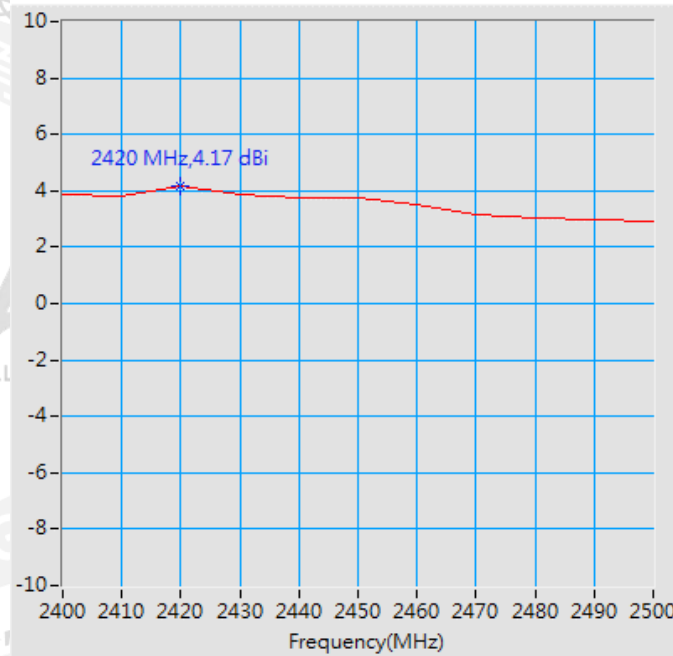
2. Antenna Characteristics

DB1_2G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2440 MHz : 73.16 %

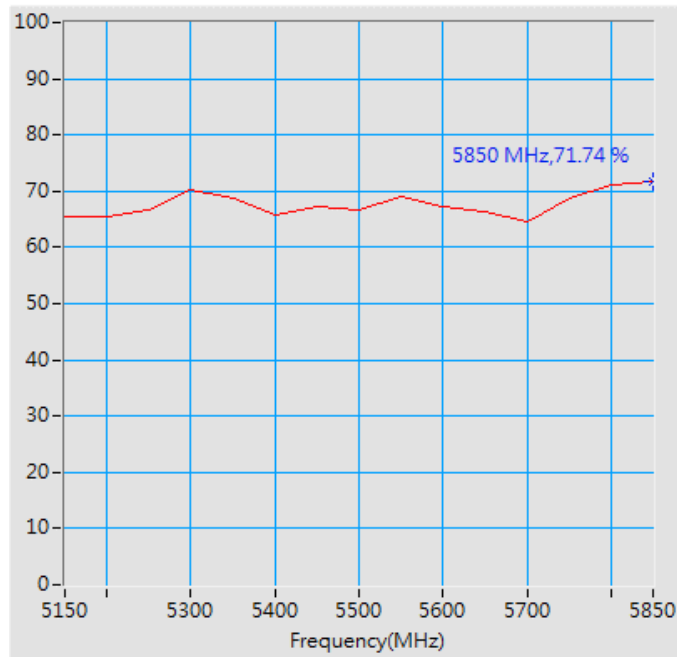


Maximum Peak Gain at 2420 MHz : 4.17 dBi

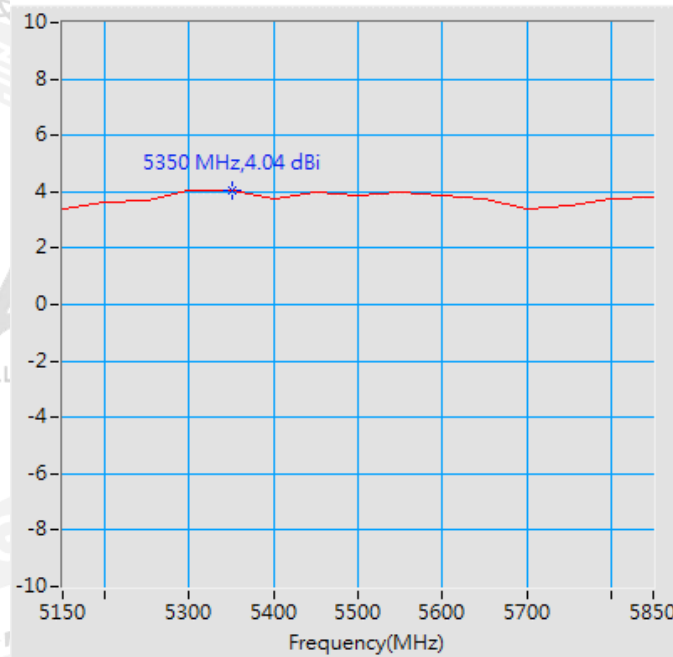
2. Antenna Characteristics

DB1_5G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 5850 MHz : 71.74 %

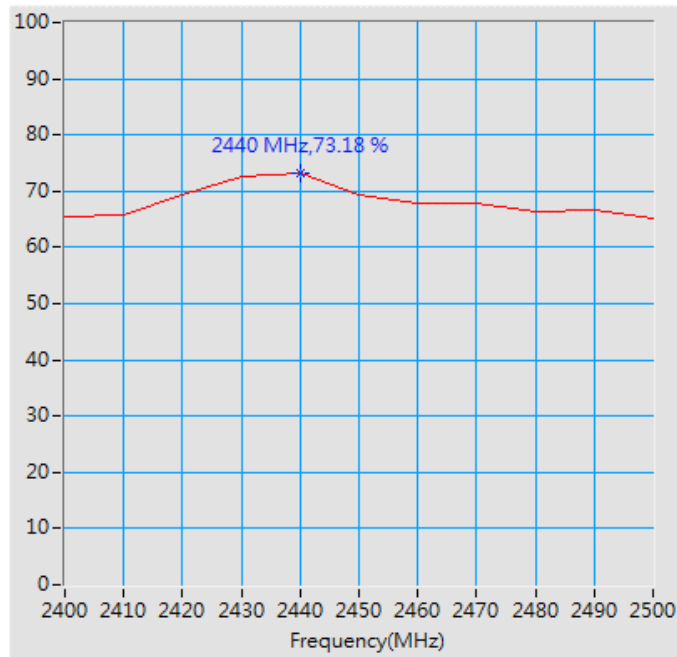


Maximum Peak Gain at 5350 MHz : 4.04 dBi

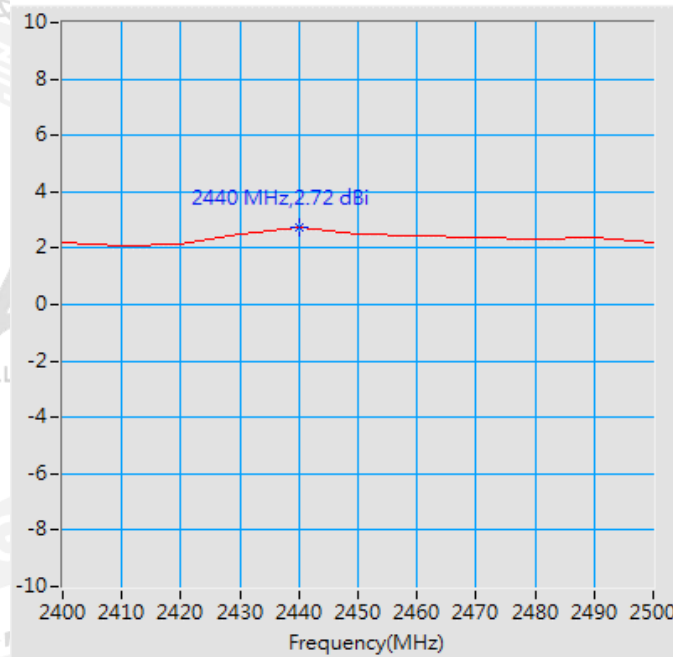
2. Antenna Characteristics

DB2_2G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2440 MHz : 73.18 %

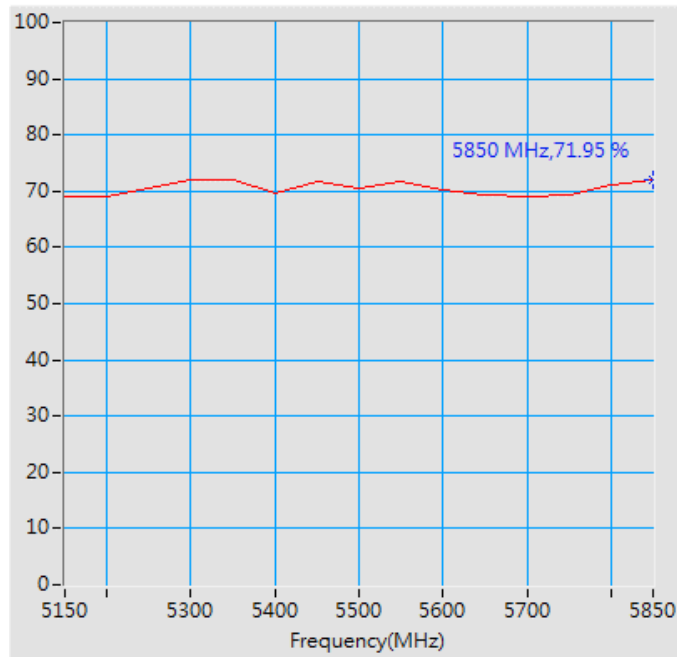


Maximum Peak Gain at 2440 MHz : 2.72 dBi

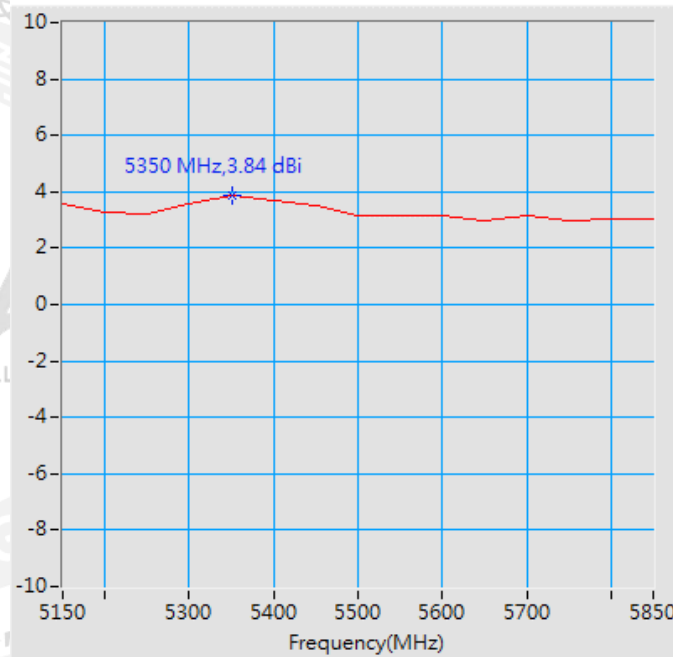
2. Antenna Characteristics

DB2_5G

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 5850 MHz : 71.95 %

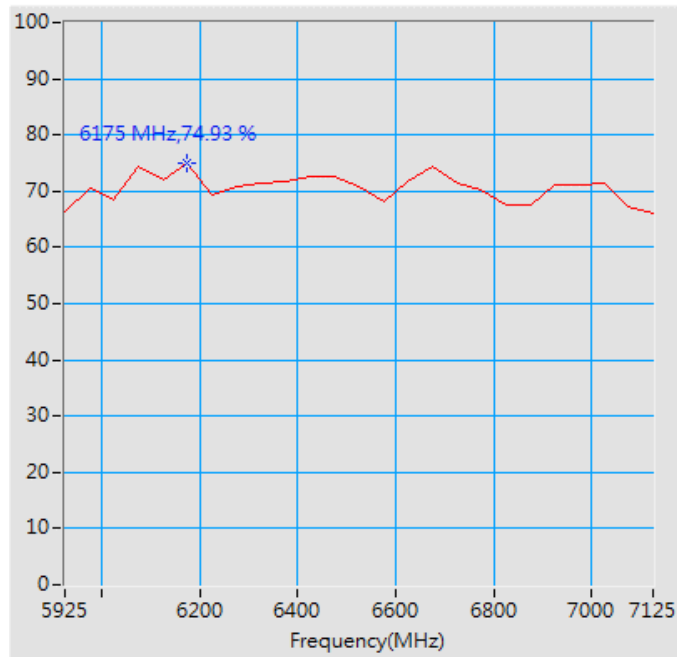


Maximum Peak Gain at 5350 MHz : 3.84 dBi

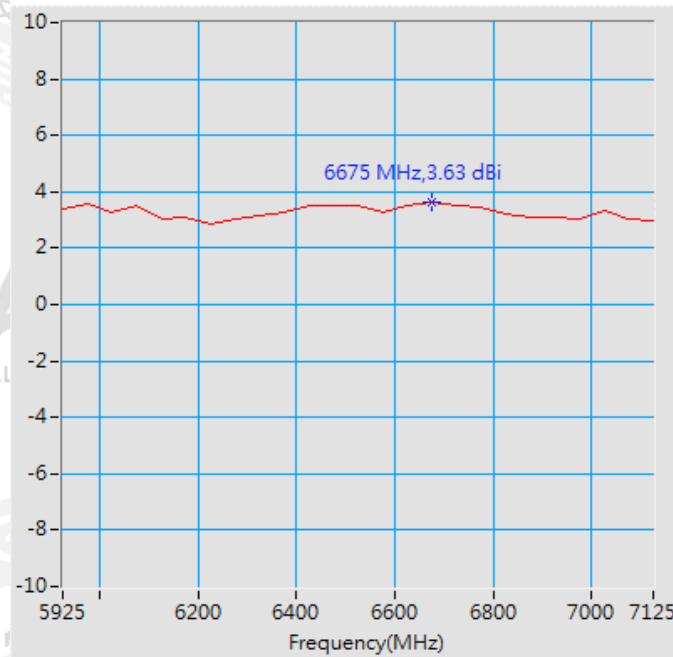
2. Antenna Characteristics

6G1

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 6175 MHz : 74.93 %

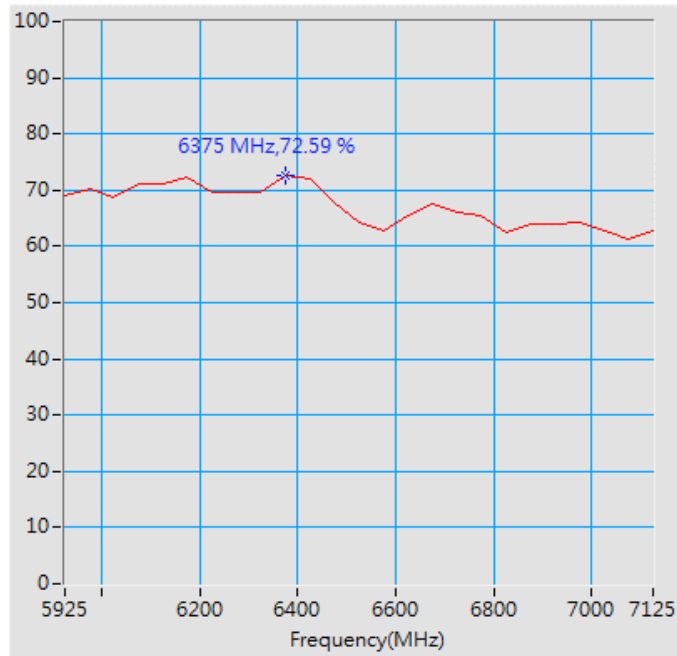


Maximum Peak Gain at 6675 MHz : 3.63 dBi

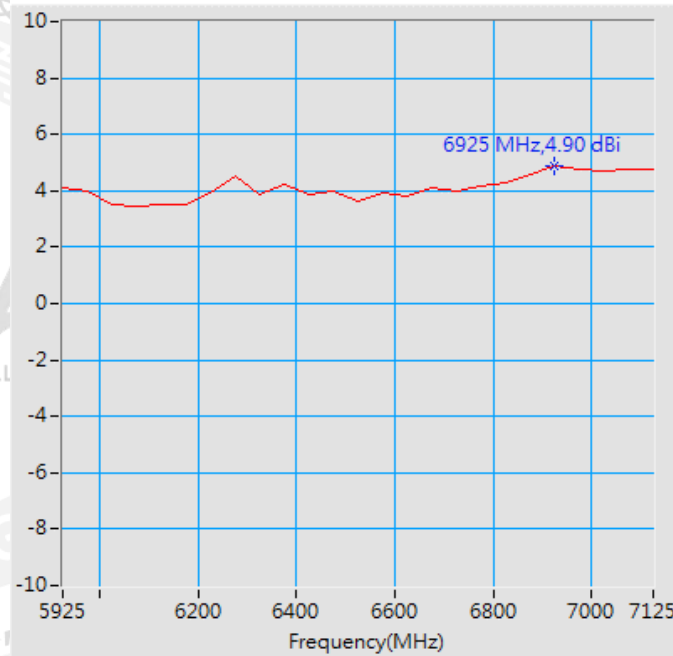
2. Antenna Characteristics

6G2

2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 6375 MHz : 72.59 %



Maximum Peak Gain at 6925 MHz : 4.90 dBi

2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

	DB1		DB2	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)	Efficiency (%)	Peak gain (dBi)
2400	67.75	3.84	65.50	2.23
2450	71.35	3.72	69.28	2.50
2500	66.76	2.90	65.04	2.22
5150	65.43	3.36	68.96	3.55
5500	66.75	3.86	70.50	3.15
5850	71.74	3.81	71.95	3.05

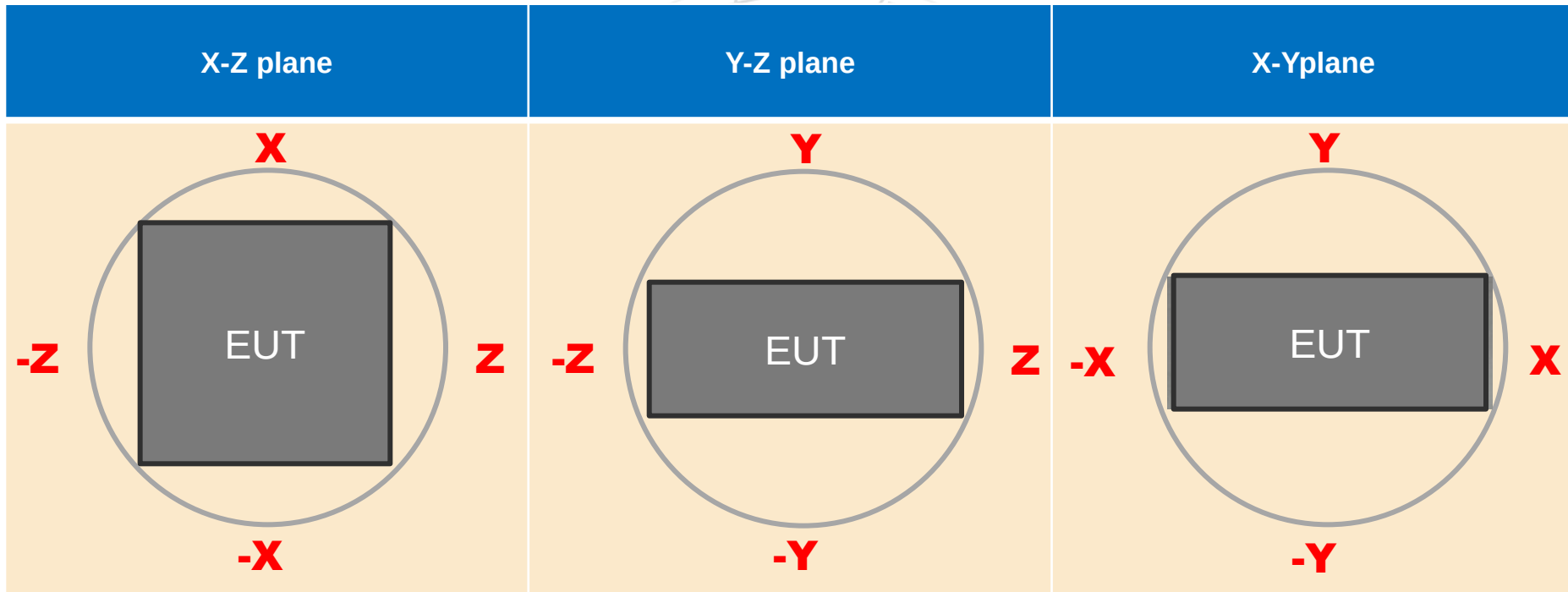
2. Antenna Characteristics

2.2 Antenna Efficiency and Peak Gain

	6G1		6G2	
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)	Efficiency (%)	Peak gain (dBi)
5925	66.38	3.38	69.05	4.10
6525	70.71	3.51	64.41	3.61
7125	66.22	2.97	62.81	4.79

2. Antenna Characteristics

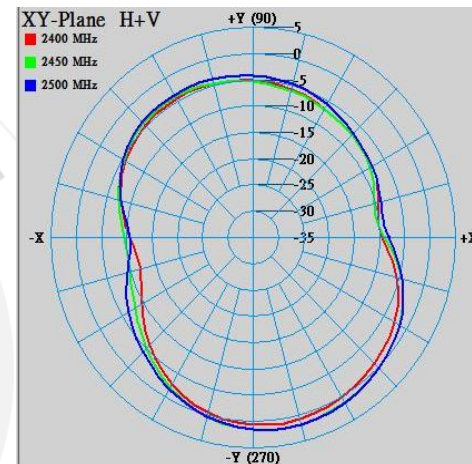
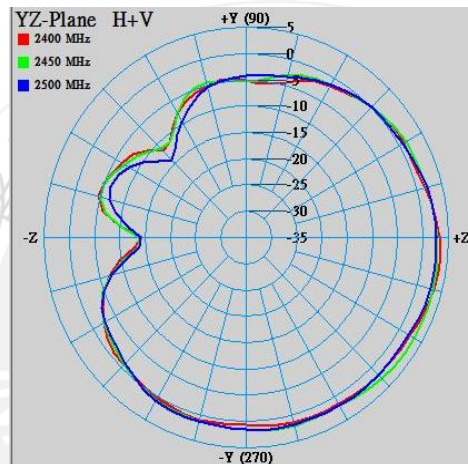
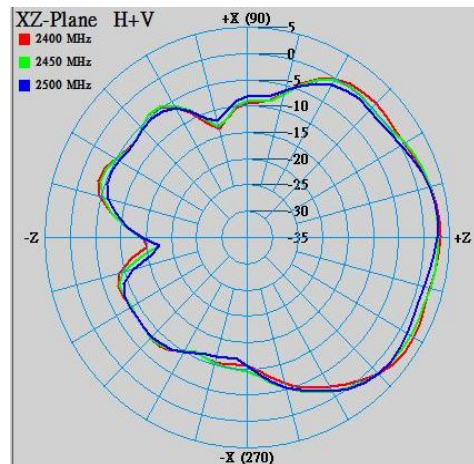
2.3 3 views of antenna



2. Antenna Characteristics

DB1_2G

2.3 2D Radiation Patterns

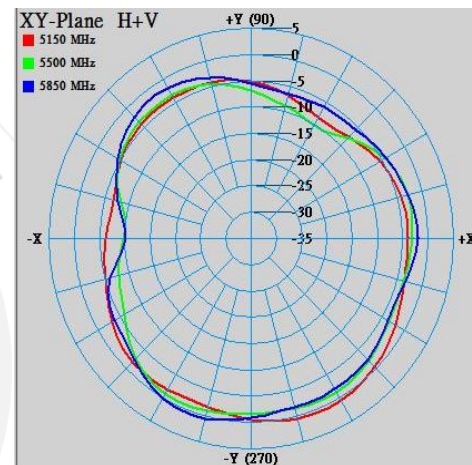
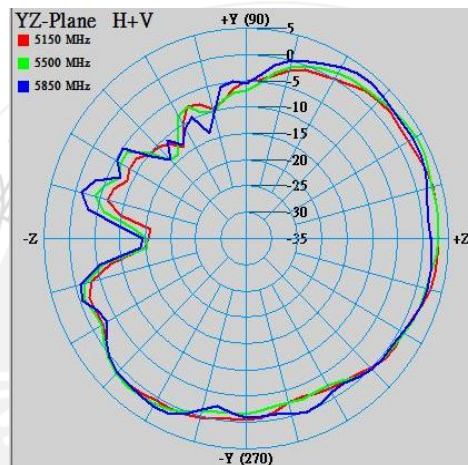
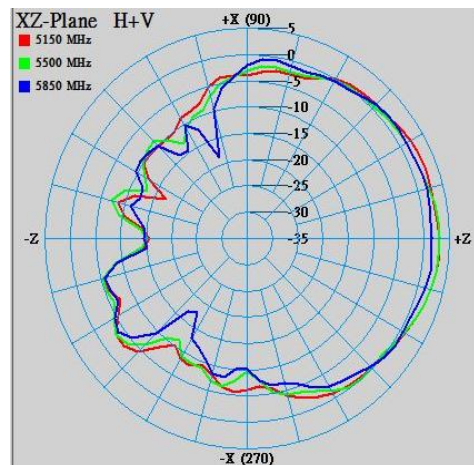


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	3.28	-1.86	3.59	-0.42	0.85	-3.95
2450	2.84	-2.03	3.40	-0.10	1.83	-3.18
2500	2.86	-2.52	2.76	-0.48	1.90	-2.92

2. Antenna Characteristics

DB1_5G

2.3 2D Radiation Patterns

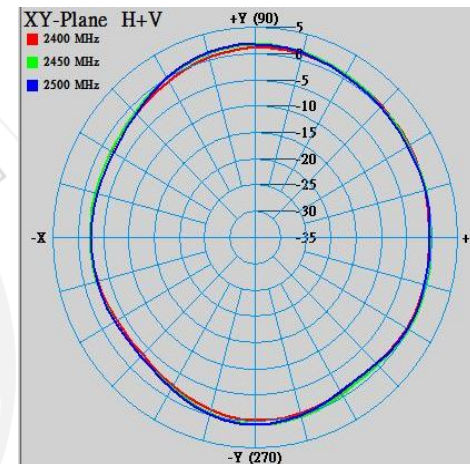
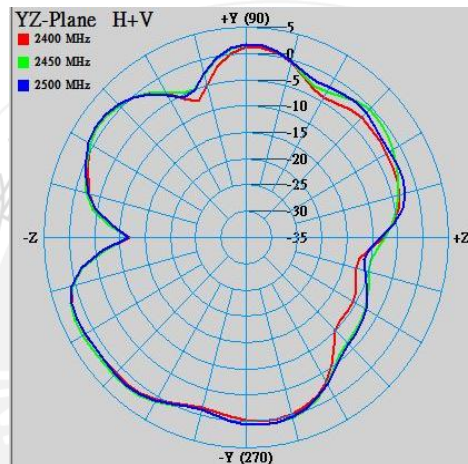
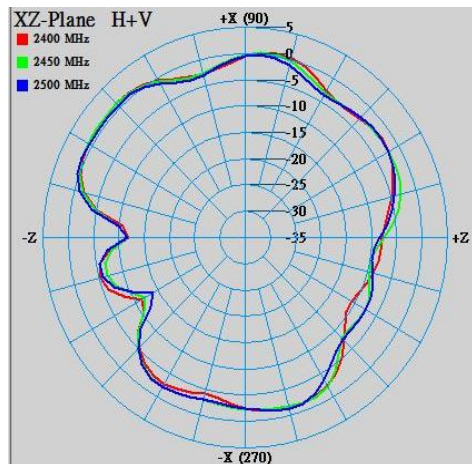


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	3.10	-1.76	3.25	-0.69	0.67	-3.16
5500	3.09	-2.00	3.86	-0.43	-0.80	-3.85
5850	1.82	-2.51	3.57	-0.30	0.61	-3.10

2. Antenna Characteristics

DB2_2G

2.3 2D Radiation Patterns

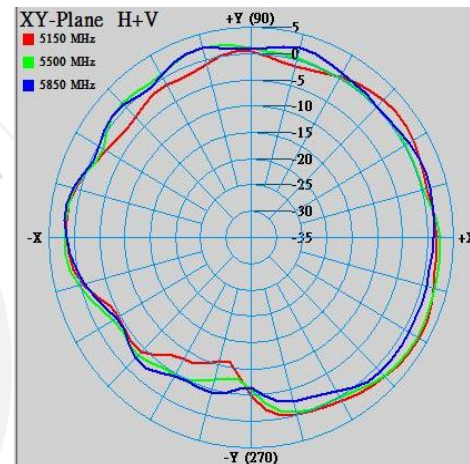
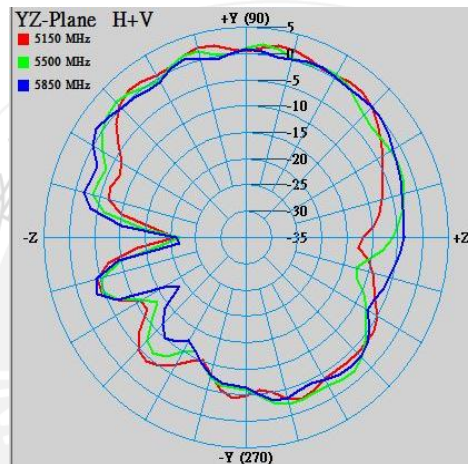
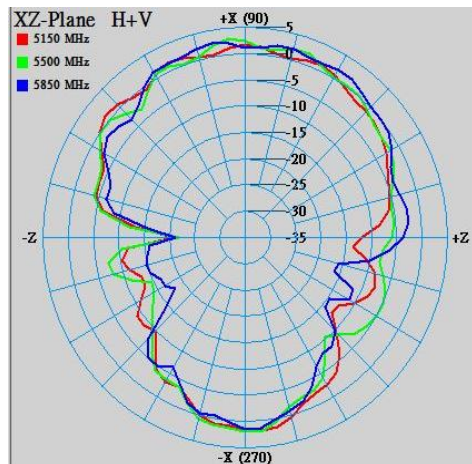


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.02	-2.86	1.94	-1.66	1.20	-0.76
2450	0.93	-2.77	2.32	-1.09	1.77	-0.37
2500	0.70	-3.00	1.98	-1.15	1.78	-0.52

2. Antenna Characteristics

DB2_5G

2.3 2D Radiation Patterns

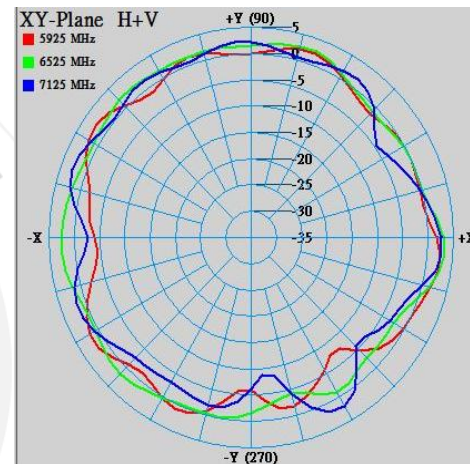
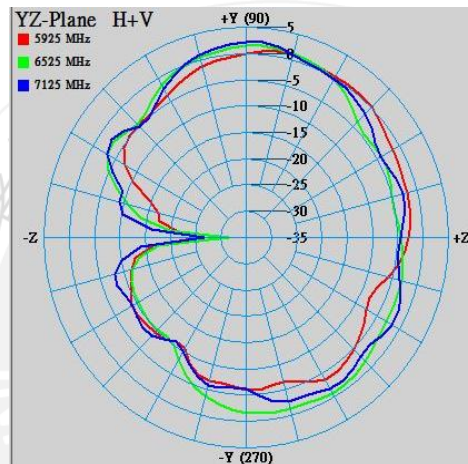
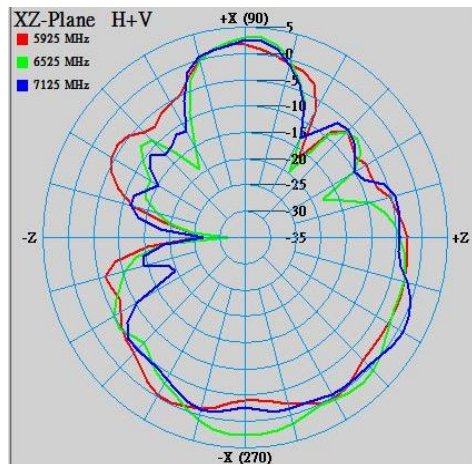


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	1.91	-2.13	2.43	-2.65	3.40	0.01
5500	2.86	-1.89	1.87	-2.58	3.00	0.38
5850	2.54	-2.00	1.13	-2.62	2.34	0.13

2. Antenna Characteristics

6G1

2.3 2D Radiation Patterns

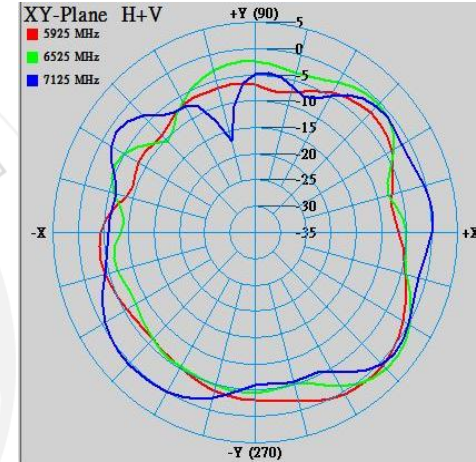
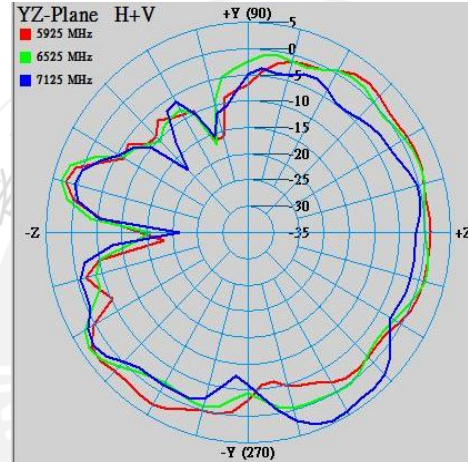
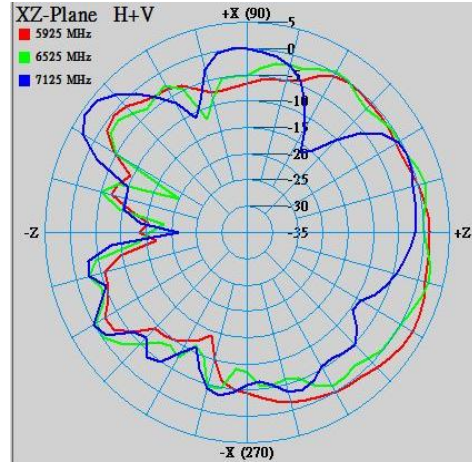


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5925	1.79	-3.07	0.94	-3.77	2.63	-0.27
6525	3.16	-2.32	1.55	-2.82	3.33	0.72
7125	2.72	-3.16	2.22	-2.90	2.84	-0.07

2. Antenna Characteristics

6G2

2.3 2D Radiation Patterns



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5925	2.89	-2.01	3.18	-0.77	0.86	-4.04
6525	2.16	-2.34	3.37	-0.94	1.79	-3.56
7125	4.24	-3.00	4.53	-1.33	0.83	-2.50

3. Summary

- The performance of antennas is shown in table

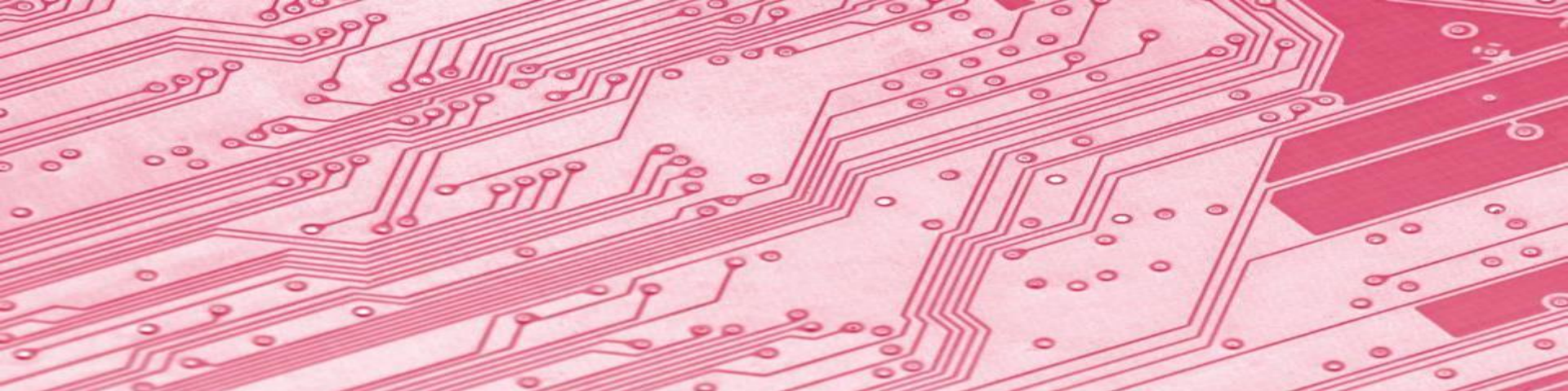
	Maximum Efficiency (%)	Maximum Gain (dBi)
DB1-2G	73.16	4.17
DB1-5G	71.74	4.04
DB2-2G	73.18	2.72
DB2-5G	71.95	3.84
6G1	74.93	3.63
6G2	72.59	4.90

3. Summary

- The performance of antennas is shown in table

Antenna info.		Antenna		Peak gain (dBi)				
Brand	Model	Type	Connector	2400~2483.5 MHz	5150~5250 MHz	5250~5350 MHz	5470~5725 MHz	5725~5850 MHz
PSA	WA-P-LB-15-009	DIPOLE	IPEX	4.17	3.66	4.04	4.02	3.81
PSA	WA-P-LB-05-055	DIPOLE	IPEX	2.71	3.55	3.84	3.53	3.05

Antenna info.		Antenna		Peak gain (dBi)			
Brand	Model	Type	Connector	5925~6425 MHz	6425~6525 MHz	6525~6875 MHz	6875~7125 MHz
PSA	WA-P-LF-11-003	DIPOLE	IPEX	3.55	3.53	3.63	3.35
PSA	WA-P-LF-01-024	DIPOLE	IPEX	4.51	3.98	4.65	4.90



Title for Image (above image could be replaced)

Content Details

PASSIVE SYSTEM ALLIANCE
INPAQ TECHNOLOGY CO., LTD.

Thank you

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