Honeywell

Deviation Report

Part Number料号	3013-0521-001	Part Revision 料件版本	A0	Dated 日期	2024/6/25
Drawing Number图号					
Part description料件描述					

Item	Specification	Deviation
1		
2		
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11		
12		

SPECIFICATION

SHEET FOR APPROVAL

（Revision：R：A0）

CUSTOMER(客户名称)	Honeywell
CS P/N(客户机种)	CK62
PART NAME(品名)	Upper stent-2 LDS finished product
FREQUENCY(频率)	690~960/1700~2690/3300~4200MHz GPS：L1/L5 WIFI：2.4G/5G/6E
ZTX NO.(物料编号)	1.20.000089
DATE(日期)	2024/6/25

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注)：

Sign(客户确认签字盖章)：

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		Liping.LIU	Wenqi.LIU	

Shenzhen ZTX Communication Technology Co., Ltd
Address: No.34, Shilong Avenue, Shiyan Town, Baoan District, Shenzhen,
(Tengda Industrial Park)
zip code: 518000 Tel：0755-27588320
Fax：0755-27588045 http://www.chinaztx.com

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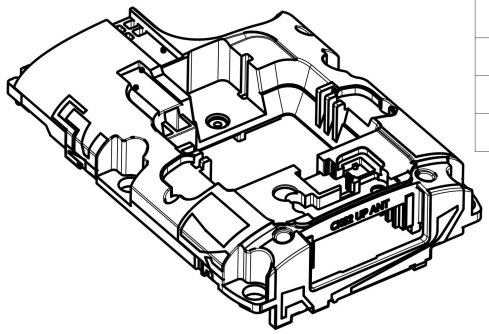
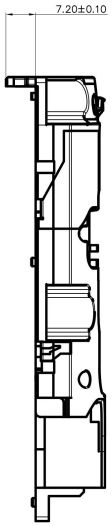
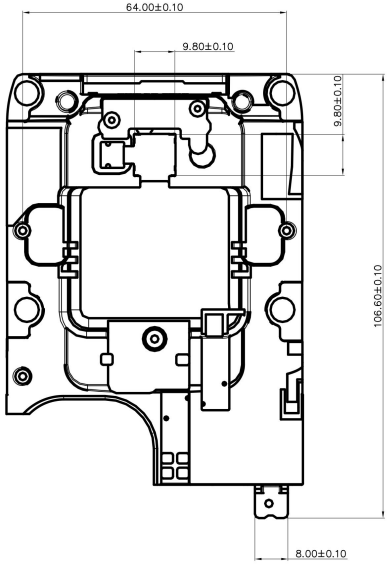
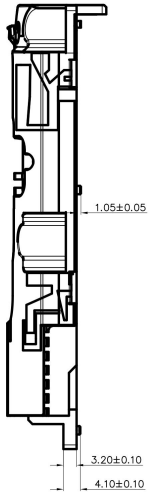
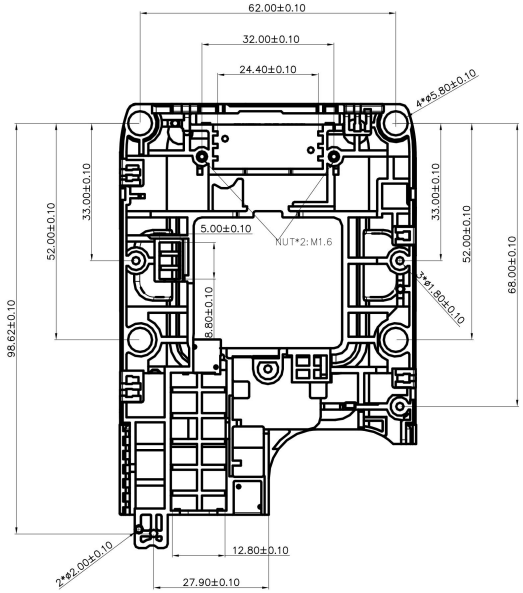
Ant.VER 天线版本	Rev 版本	Description 描述	Designed 制图	Date 日期
	V1	首次发行	刘黎平	2024.06.04











Ⓑ	LDS天线	LDS工艺 化镀 Cu>8-15um，Ni：2-6um	5	
Ⓐ	DOWN天线支架	SABIC DX11355/UL94-V0/黑色	1	
序号	品 名	材质与工艺	用 量	备 注

物 料 表

LDS线路

备注：
1. 标有“*”的为重点管控尺寸；没标注的尺寸参考3D图档。
2. 材质说明详见物料表;
3. 线路批量量产时会用治具检测驻波一致性;
4. 产品需清洁,不可脏污,外观不可碰花,刮伤;溢镀，多雕等外观不良。
5. 化镀后，产品需过48小时盐雾试验及百格试验;
5. 用吸塑盒包装;
6. 用于制造该零件的材料中的有害物质不能超过RoHS 2011/65/EU 指令及REACH No.1907/2006法规规定的值要求;
7. 样品经设计人员确认后主可量产.

ZTX 深圳市中天迅通信技术股份有限公司
Shenzhen ZHONGTIANXUN Communication Technology Shares Co.,Ltd

General Tolerance		
Grade / Dim	A	B
0-5	±0.05	±0.20
5-10	±0.08	±0.30
10-40	±0.10	±0.40
40>	±0.15	±0.50

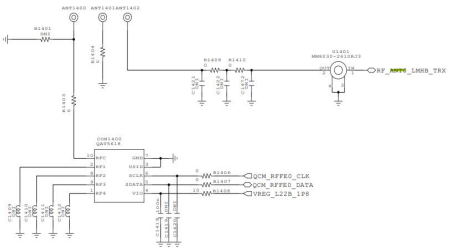
Date 日期:2024.06.04	Unit 单位:mm	Rev 版本: V1	Scale 比例: 1:1	Project Code 项目代码: ztx3347
Designed 设计: 刘黎平	Material 材料:			Project Name 项目名称: CK62
Checked 审核: 刘文奇	Process 工艺:			Product Name 产品名称:S0703-UP天线支架LDS天线
Approval 批准: 邹国华	Third Angle 第三视角			Material Code 物料编码: 1.20.000089

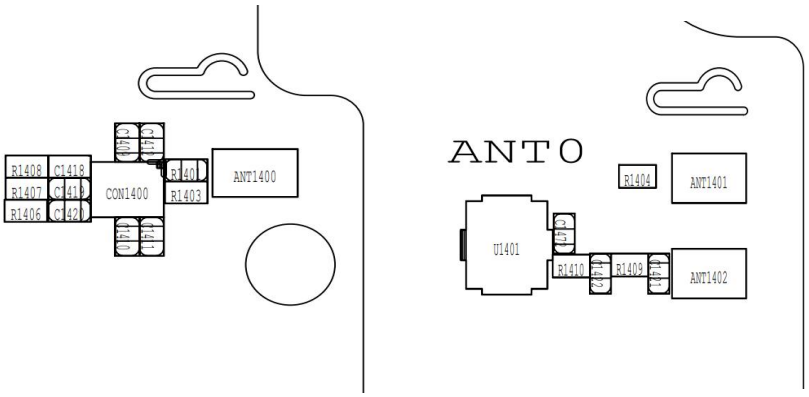
2

matching circuit

ANT0					
ANT1402-弹脚				ANT1400-弹脚	
C1421	12NH			R1401	33NH
R1409	0欧姆			R1403	0欧姆
C1422	0.5PF		RF1	C1409-RF1	0欧姆
R1410	2.4NH		RF2	C1410-RF2	5.1NH
C1472	NC		RF3	C1411-RF3	15NH
			RF4	C1412-RF4	27NH
ANT1401-弹脚					
R1404	NC				

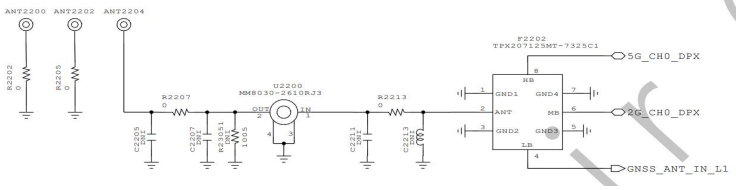
ANT0_LMH_PRX



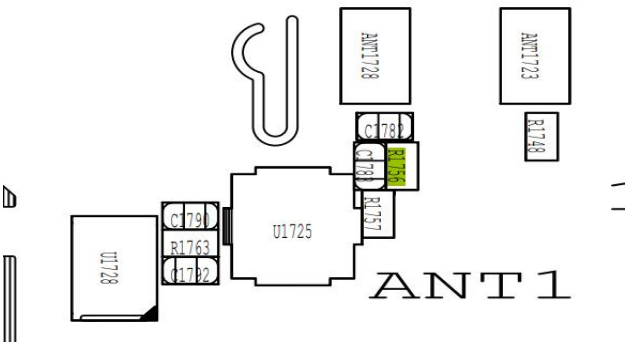


ANT3	
ANT2204	
C2205	NC
R2207	0欧姆
C2207	NC
ANT2200	
R2202	NC
ANT2202	
R2205	0欧姆

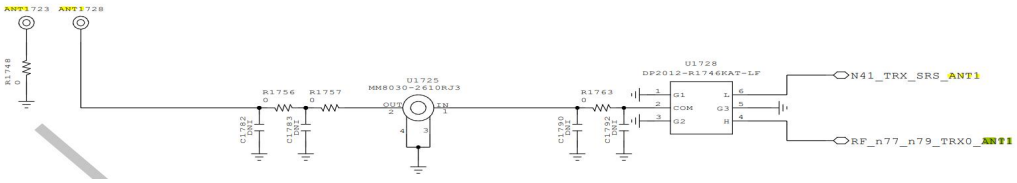
ANT3_WIFI_CH0/BT/GPS_L1



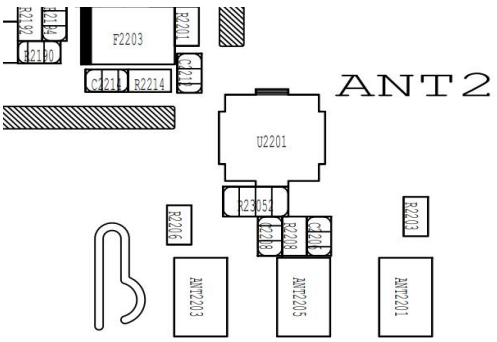
ANT1	
ANT1728	
C1782	NC
R1756	0.5P
C1783	0.3P
R1757	1N
ANT1723	
R1748	0欧姆



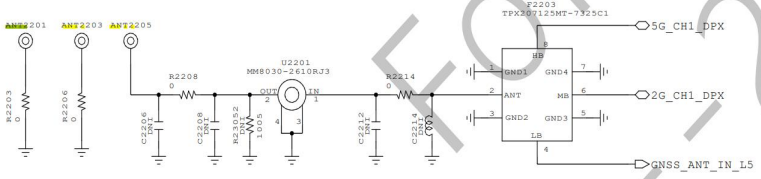
ANT1_N40_N41_N77-TRX



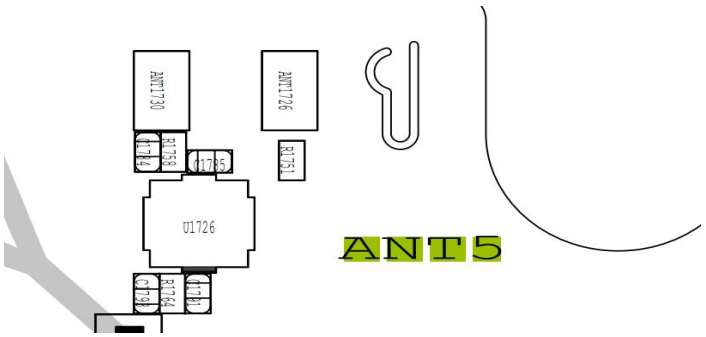
ANT2	
ANT2205	
C2206	NC
R2208	0欧姆
C2208	NC
ANT2201	
R2203	NC
ANT2203	
R2206	0欧姆



ANT2_WIFI_CH1/BT/GPS_L5



ANT5	
ANT1730	
C1784	0.3P
R1758	1N
C1785	NC
ANT1726	
R1751	0欧姆



ANT5_N77-RX

Active Test

2G/3G OTA			
	Channels	TRP	TIS
850	L	23.9	
	M	24.7	
	H	24.8	-102.36
900	L	26.1	
	M	25.2	
	H	24.7	-102.17
1800	L	25.3	
	M	25.0	
	H	24.9	-104.69
1900	L	24.6	
	M	24.5	
	H	23.7	-103.35
W1	L	19.3	
	M	18.9	
	H	18.4	-104.79
W2	L	19.2	
	M	19.5	
	H	19.4	-106.69
W4	L	19.9	
	M	19.9	
	H	19.5	-105.47
W5	L	16.9	
	M	17.4	
	H	17.3	-104.65
W6	L	17.2	
	M	17.4	
	H	17.2	-104.58
W8	L	18.8	
	M	18.9	
	H	17.5	-103.77
W19	L	17.1	
	M	17.6	
	H	17.5	-102.82

4G OTA											
LTE-FDD	Channels	TRP	TIS	LTE-FDD	Channels	TRP	TIS	LTE-FDD	Channels	TRP	TIS
B1	L	19.2		B19	L	16.1		B41	L	19.0	
	M	18.8			M	16.0			M	18.0	
	H	18.6	-94.44		H	16.0	-91.82		H	17.3	-88.73
B2	L	19.3		B20	L	16.7		B42	L	18.6	
	M	19.4			M	16.2			M	18.6	
	H	19.2	-94.88		H	16.5	-91.49		H	18.3	-88.56
B3	L	19.9		B25	L	19.4		B43	L	18.4	
	M	19.4			M	19.4			M	18.7	
	H	19.3	-93.07		H	19.9	-95.37		H	17.9	-89.74
B4	L	20.1		B26	L	16.3					
	M	19.6			M	16.1					
	H	19.5	-93.71		H	16.4	-92.34				
B5	L	16.2		B28	L	15.8					
	M	16.1			M	15.0					
	H	16.3	-92.68		H	13.2	-89.88				
B7	L	18.7		B30	L	19.6					
	M	18.5			M	19.1					
	H	18.0	-90.93		H	19.2	-94.01				
B8	L	17.5		B66	L	18.5					
	M	17.3			M	18.7					
	H	16.5	-91.96		H	18.6	-92.89				
B12	L	15.5		B34	L	18.2					
	M	15.6			M	17.8					
	H	15.4	-90.99		H	17.3	-88.47				
B13	L	14.6		B39	L	19.1					
	M	14.5			M	19.0					
	H	14.2	-89.29		H	18.6	-91.13				
B17	L	15.7		B40	L	18.2					
	M	15.5			M	18.7					
	H	15.4	-90.59		H	18.9	-89.46				

5G OTA											
band	Channels	TRP	TIS	band	Channels	TRP	TIS	band	Channels	TRP	TIS
N77	L	20.63		N3	L	18.23		N25	L	17.0	
	M	20.38			M	18.34			M	17.4	
	H	20.53	-89.75		H	18.23	-91.68		H	16.9	-94.54
N78	L	20.35		N5	L	16.68		N28	L	15.6	
	M	20.18			M	16.73			M	14.5	
	H	20.08	-90.36		H	16.52	-90.77		H	14.1	-90.2
N41	L	20.4		N7	L	17.53		N66	L	17.6	
	M	20.3			M	17.65			M	17.9	
	H	20.3	-88.73		H	17.77	-93.93		H	16.9	-93.47
N1	L	17.32		N8	L	17.11					
	M	17.24			M	16.62					
	H	17.52	-93.43		H	17.18	-91.52				
N2	L	17.62		N20	L	17.1					
	M	17.67			M	16.5					
	H	17.73	-94.55		H	16.6	-89.19				

ANT2天线

2.4G-11B	1	12.29	-81.64
	6	13.17	-82.76
	11	12.86	-81.98
5G-11A	36	12.21	-70.95
	149	13.54	-70.69
	165	13.26	-70.13

ANT3天线

2.4G-11B	1	12.74	-82.5
	6	13.15	-82.47
	11	13.22	-81.66
5G-11A	36	13.12	-72.05
	149	12.98	-71.38
	165	12.44	-71.42
GPS	-152.69		

Passive Test

ANT0							
Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB	Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB
700	16%	-7.99	-4.30	1900	49%	-3.07	2.01
710	17%	-7.68	-3.89	1920	44%	-3.56	3.42
720	20%	-6.89	-2.91	1940	41%	-3.90	2.97
730	23%	-6.40	-2.33	1960	39%	-4.10	3.21
740	26%	-5.86	-1.81	1980	36%	-4.44	2.59
750	27%	-5.61	-1.36	2000	33%	-4.76	2.05
760	26%	-5.92	-1.83	2020	33%	-4.77	1.80
770	23%	-6.46	-2.43	2040	31%	-5.08	1.34
780	17%	-7.65	-3.44	2060	32%	-4.99	1.20
791	22%	-6.62	-1.89	2080	33%	-4.80	1.39
800	25%	-5.95	-1.34	2100	37%	-4.29	2.09
810	32%	-4.93	-0.47	2120	37%	-4.27	2.24
820	33%	-4.76	-0.03	2140	36%	-4.42	2.13
824	37%	-4.33	0.40	2160	36%	-4.41	2.17
830	40%	-3.98	0.76	2180	35%	-4.59	2.15
840	37%	-4.28	0.51	2200	34%	-4.69	2.12
850	32%	-5.00	-0.13	2220	35%	-4.62	2.31
860	28%	-5.58	-0.60	2240	38%	-4.24	2.77
870	25%	-6.10	-1.53	2260	39%	-4.04	3.03
880	23%	-6.47	-2.08	2280	41%	-3.92	3.17
890	27%	-5.72	-1.17	2300	41%	-3.85	3.13
894	30%	-5.16	-0.69	2320	40%	-4.00	2.99
900	32%	-4.93	-0.24	2340	41%	-3.91	2.88
910	34%	-4.64	-0.16	2360	39%	-4.07	2.22
920	36%	-4.49	-0.24	2380	41%	-3.92	2.15
930	31%	-5.03	-0.88	2400	39%	-4.11	1.80
940	29%	-5.31	-0.91	2420	36%	-4.43	0.98
950	25%	-5.95	-1.61	2440	34%	-4.73	0.34
960	23%	-6.43	-1.96	2460	32%	-4.95	0.32
1700	39%	-4.13	2.03	2480	33%	-4.86	0.46
1710	38%	-4.16	3.00	2500	32%	-4.89	0.29
1720	43%	-3.63	2.34	2520	33%	-4.83	-0.27
1740	49%	-3.07	2.41	2540	33%	-4.77	-0.71
1760	50%	-3.03	2.56	2560	34%	-4.64	-0.29
1780	56%	-2.51	2.55	2580	36%	-4.39	0.29
1800	58%	-2.34	3.12	2600	38%	-4.18	0.66
1820	58%	-2.35	3.45	2620	40%	-3.93	0.73
1840	59%	-2.32	3.00	2640	40%	-3.94	0.46
1860	60%	-2.21	2.36	2660	40%	-3.95	0.23
1880	57%	-2.43	1.76	2680	39%	-4.14	-0.05

Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB
2690	38%	-4.24	-0.18
2700	37%	-4.37	-0.32
3400	41%	-3.85	1.08
3450	42%	-3.81	0.95
3500	41%	-3.92	0.60
3550	39%	-4.05	0.17
3600	40%	-4.03	1.58
3650	35%	-4.60	1.11
3700	40%	-3.99	2.06
3750	36%	-4.45	2.17
3800	33%	-4.86	1.33

ANT1			
Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB
2300	38%	-4.16	2.22
2320	40%	-4.03	2.65
2340	41%	-3.86	3.07
2360	42%	-3.76	2.88
2380	45%	-3.49	3.36
2400	45%	-3.43	3.30
2420	46%	-3.37	3.08
2440	46%	-3.42	3.31
2460	47%	-3.25	3.57
2480	49%	-3.06	3.88
2500	52%	-2.83	4.10
2520	53%	-2.76	3.93
2540	53%	-2.73	3.72
2560	54%	-2.69	3.26
2580	52%	-2.85	2.27
2600	52%	-2.85	2.06
2620	52%	-2.83	1.92
2640	52%	-2.87	2.08
2660	52%	-2.84	2.15
2680	52%	-2.80	2.30
2700	51%	-2.89	2.31
3300	47%	-3.26	2.96
3350	47%	-3.29	3.22
3400	48%	-3.20	3.50
3450	46%	-3.42	3.54
3500	45%	-3.47	3.50
3550	43%	-3.70	3.54
3600	41%	-3.83	3.57
3650	42%	-3.79	3.65
3700	40%	-3.97	3.41
3750	40%	-3.97	3.64
3800	41%	-3.84	4.13
3850	46%	-3.39	5.05
3900	49%	-3.13	5.26
3950	50%	-2.98	5.48
4000	52%	-2.87	5.33
4050	50%	-2.98	4.94
4100	53%	-2.79	4.81
4150	53%	-2.78	4.53
4200	52%	-2.84	4.21

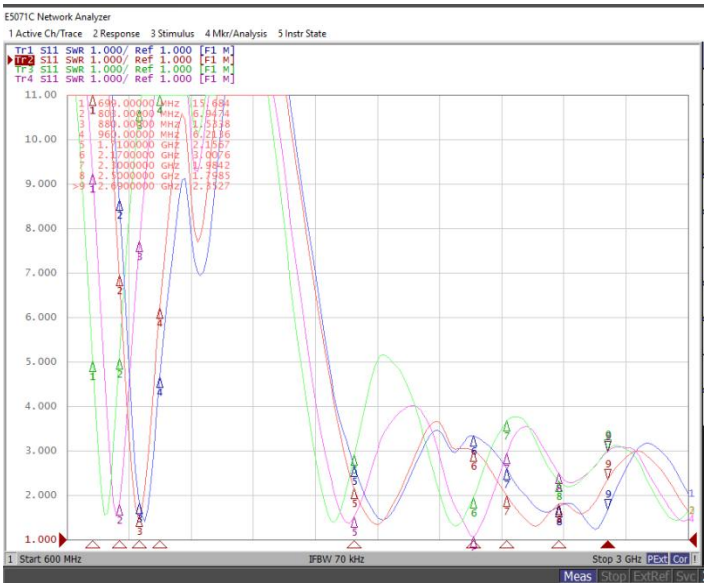
ANT2							
Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB	Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB
1150	42%	-3.79	1.64	5700	41%	-3.84	4.19
1155	43%	-3.63	1.43	5750	39%	-4.07	4.21
1160	41%	-3.83	1.32	5800	38%	-4.15	4.06
1165	41%	-3.83	0.68	5850	39%	-4.09	4.02
1170	38%	-4.25	0.27	5900	45%	-3.43	6.56
1175	37%	-4.28	0.25	5950	48%	-3.18	7.02
1180	35%	-4.52	0.09	6000	45%	-3.51	7.22
1185	38%	-4.24	0.35	6050	48%	-3.16	6.94
1190	37%	-4.27	0.30	6100	47%	-3.29	6.84
2400	41%	-3.90	2.93	6150	44%	-3.58	6.39
2410	41%	-3.89	3.06	6200	50%	-2.99	6.01
2420	42%	-3.82	3.13	6250	49%	-3.10	5.70
2430	42%	-3.76	2.98	6300	50%	-2.98	5.64
2440	43%	-3.68	2.84	6350	46%	-3.38	4.93
2450	44%	-3.52	2.82	6400	47%	-3.25	4.72
2460	45%	-3.45	2.80	6450	46%	-3.38	4.55
2470	47%	-3.32	2.84	6500	43%	-3.70	4.33
2480	46%	-3.39	2.77	6550	47%	-3.24	4.86
2490	46%	-3.36	2.79	6600	42%	-3.76	4.19
2500	46%	-3.35	2.78	6650	47%	-3.31	4.87
5150	43%	-3.68	0.58	6700	45%	-3.48	4.63
5200	44%	-3.55	3.35	6750	41%	-3.89	4.52
5250	44%	-3.53	3.48	6800	46%	-3.36	5.49
5300	46%	-3.38	3.76	6850	40%	-3.96	4.79
5350	46%	-3.34	3.75	6900	42%	-3.77	4.95
5400	47%	-3.29	3.81	6950	42%	-3.75	4.84
5450	47%	-3.32	3.72	7000	42%	-3.78	4.94
5500	47%	-3.26	3.97	7050	44%	-3.56	4.87
5550	48%	-3.17	4.37	7100	39%	-4.07	4.40
5600	46%	-3.37	4.36	7150	41%	-3.82	4.22
5650	44%	-3.53	4.37	7200	41%	-3.83	4.08

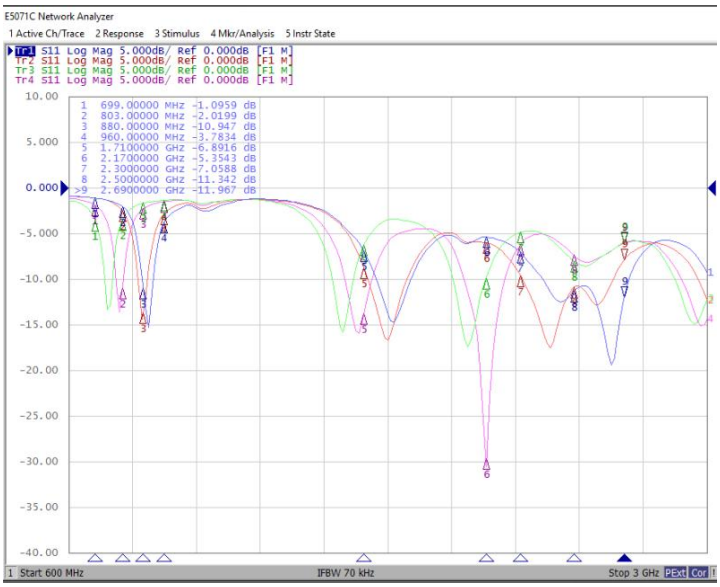
ANT3							
Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB	Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB
1550	48%	-3.22	0.31	5650	55%	-2.56	4.07
1555	49%	-3.11	0.58	5700	55%	-2.60	3.73
1560	49%	-3.06	0.54	5750	54%	-2.65	3.62
1565	50%	-3.05	0.58	5800	55%	-2.61	3.53
1570	49%	-3.13	0.34	5850	55%	-2.59	3.76
1575	49%	-3.11	0.36	5900	44%	-3.57	4.32
1580	49%	-3.11	0.11	5950	46%	-3.41	4.47
1585	49%	-3.10	0.12	6000	47%	-3.32	4.56
1590	48%	-3.19	-0.30	6050	46%	-3.36	4.25
1595	48%	-3.18	-0.41	6100	47%	-3.26	4.42
1600	49%	-3.13	-0.74	6150	50%	-3.01	4.67
2400	36%	-4.44	0.82	6200	50%	-3.04	4.71
2410	36%	-4.44	0.96	6250	52%	-2.83	4.88
2420	36%	-4.49	1.22	6300	53%	-2.72	4.88
2430	35%	-4.54	1.31	6350	51%	-2.94	4.65
2440	35%	-4.62	1.32	6400	53%	-2.78	4.89
2450	34%	-4.67	1.44	6450	51%	-2.92	4.84
2460	33%	-4.76	1.59	6500	49%	-3.10	4.65
2470	34%	-4.73	1.76	6550	51%	-2.93	4.93
2480	34%	-4.68	1.85	6600	46%	-3.35	4.40
2490	34%	-4.64	1.87	6650	48%	-3.20	4.54
2500	35%	-4.56	1.92	6700	45%	-3.48	4.26
5150	46%	-3.38	3.04	6750	41%	-3.87	3.91
5200	48%	-3.22	3.42	6800	43%	-3.67	4.12
5250	50%	-3.04	3.65	6850	38%	-4.15	3.40
5300	51%	-2.93	3.79	6900	39%	-4.14	3.29
5350	52%	-2.87	3.97	6950	38%	-4.25	3.11
5400	52%	-2.87	4.10	7000	36%	-4.40	2.34
5450	52%	-2.84	4.25	7050	36%	-4.38	2.11
5500	53%	-2.76	4.33	7100	33%	-4.79	2.86
5550	56%	-2.54	4.54	7150	34%	-4.65	2.55
5600	55%	-2.58	4.30	7200	33%	-4.77	2.13

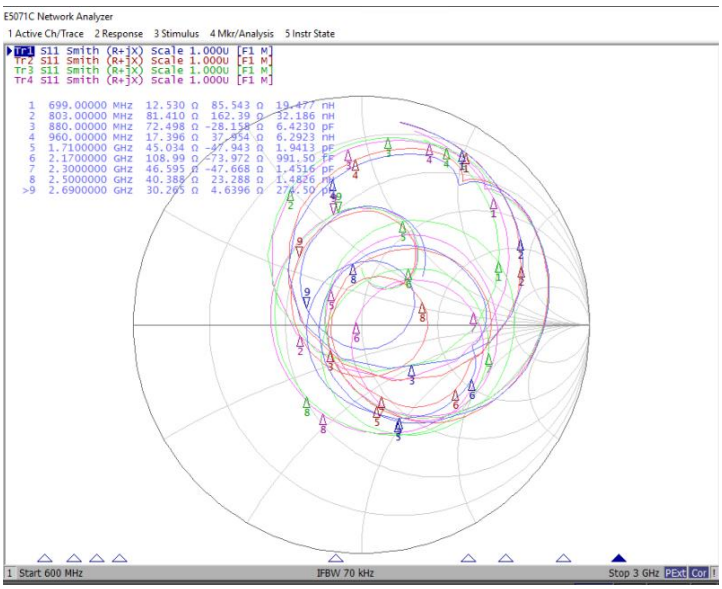
ANT5			
Frequency (MHz)	Efficiency	Efficiency . dB	Gain . dB
2300	9%	-10.34	-4.39
2320	10%	-10.07	-4.23
2340	11%	-9.62	-3.78
2360	12%	-9.16	-3.41
2380	13%	-8.74	-3.31
2400	14%	-8.41	-3.06
2420	16%	-8.04	-2.77
2440	18%	-7.41	-2.24
2460	21%	-6.80	-1.85
2480	26%	-5.93	-0.98
2500	29%	-5.34	-0.07
2520	33%	-4.80	0.69
2540	35%	-4.60	0.96
2560	36%	-4.42	1.18
2580	37%	-4.27	1.31
2600	39%	-4.10	1.39
2620	41%	-3.89	1.66
2640	41%	-3.84	1.69
2660	43%	-3.70	1.68
2680	42%	-3.73	1.47
2700	43%	-3.65	1.59
3300	40%	-3.99	1.46
3350	36%	-4.39	0.89
3400	33%	-4.75	0.64
3450	32%	-4.98	0.63
3500	30%	-5.20	0.29
3550	29%	-5.40	0.07
3600	28%	-5.51	-0.43
3650	28%	-5.57	-0.25
3700	26%	-5.83	-0.55
3750	25%	-6.00	-1.05
3800	24%	-6.25	-1.59
3850	23%	-6.44	-1.53
3900	21%	-6.75	-1.68
3950	20%	-7.08	-1.97
4000	18%	-7.34	-1.67
4050	17%	-7.81	-1.82
4100	16%	-8.09	-2.02
4150	14%	-8.53	-2.57
4200	13%	-8.77	-2.54

VSWR & Return loss plot & Smith

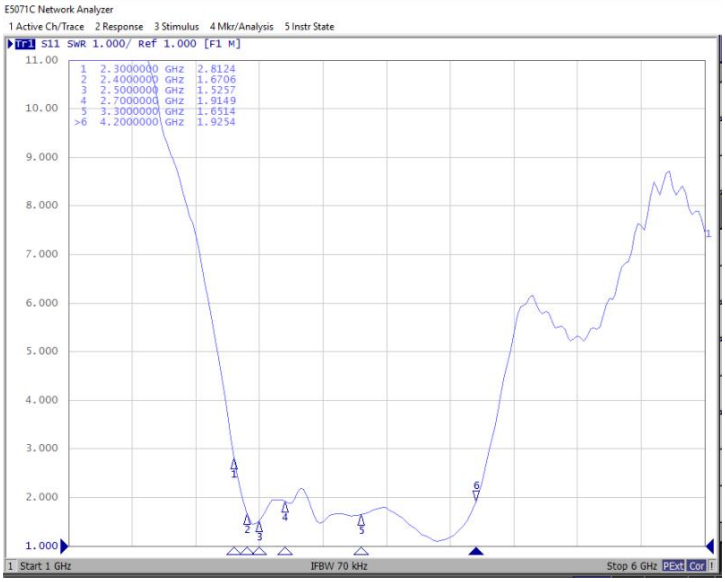
ANT0

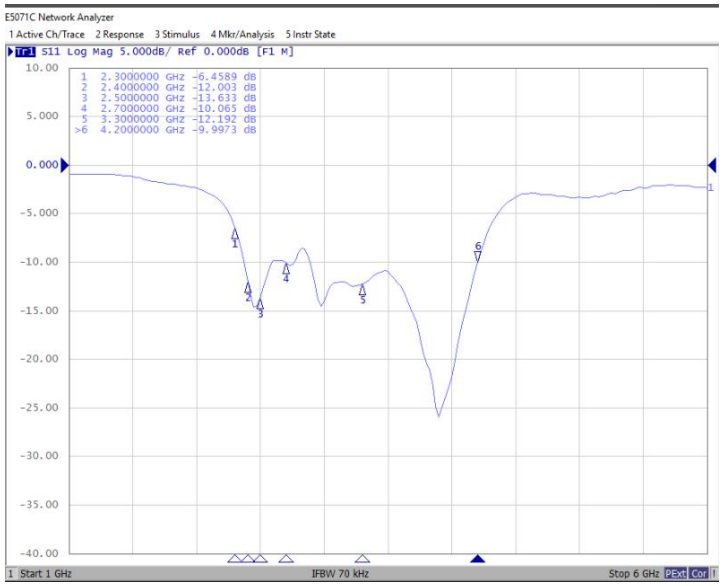


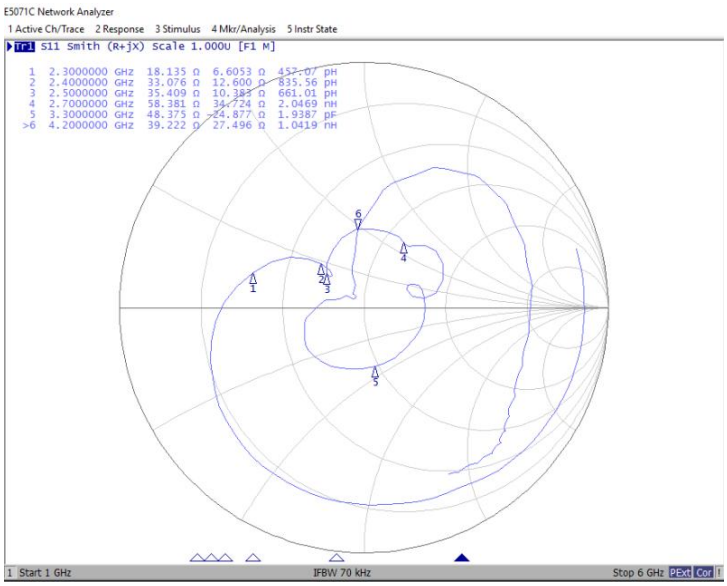


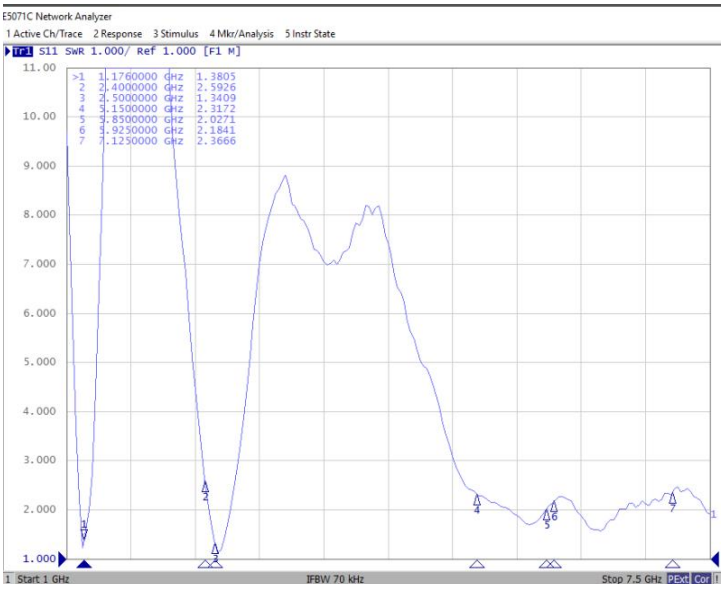


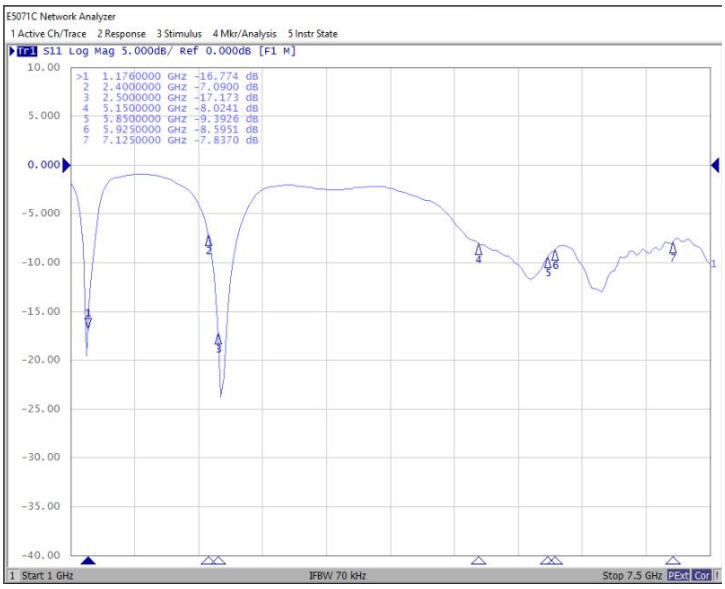
ANT1

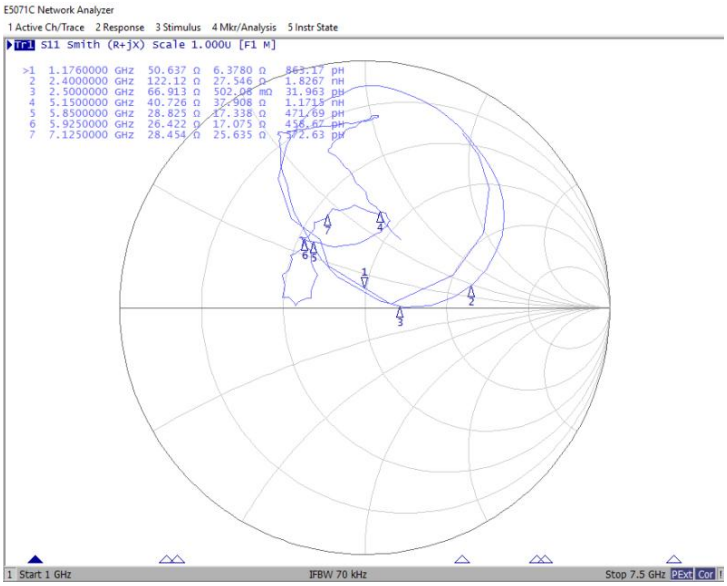

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1 M]
1 2.3000000 GHz 2.8124
2 2.4000000 GHz 1.6706
3 2.5000000 GHz 1.5257
4 2.7000000 GHz 1.9149
5 3.3000000 GHz 1.6514
>6 4.2000000 GHz 1.9254
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 1 GHz
IFBW 70 kHz
Stop 6 GHz
PExt Cor

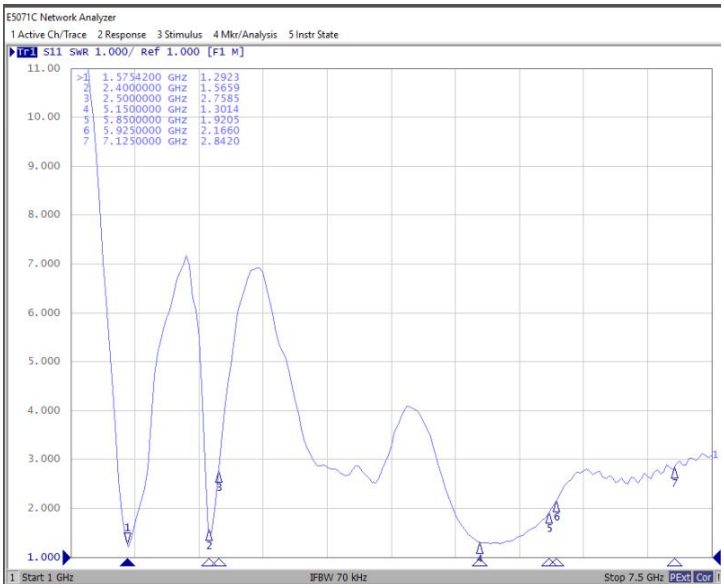

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]
1 2.3000000 GHz -6.4589 dB
2 2.4000000 GHz -12.003 dB
3 2.5000000 GHz -13.633 dB
4 2.7000000 GHz -10.065 dB
5 3.3000000 GHz -12.192 dB
>6 4.2000000 GHz -9.9973 dB
10.00
5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
1 Start 1 GHz
IFBW 70 kHz
Stop 6 GHz
PExt Cor

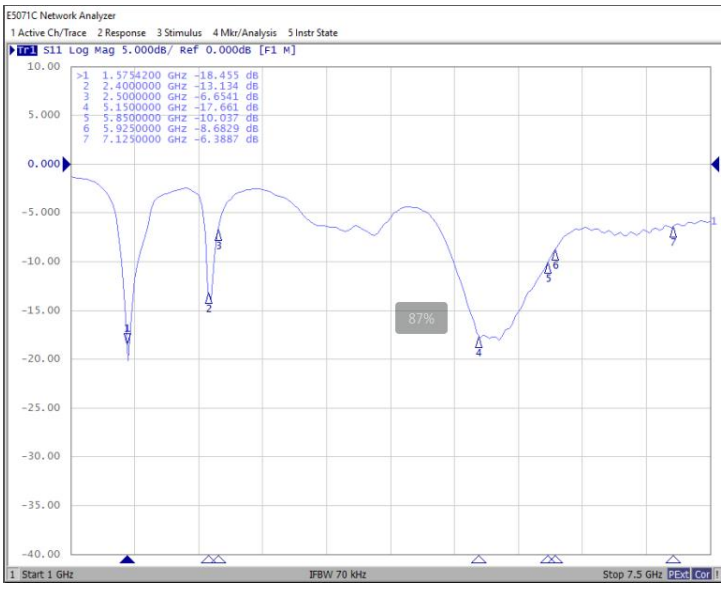

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1 M]
1 2.3000000 GHz 18.135 Ω 6.6053 Ω 457.07 pH
2 2.4000000 GHz 33.076 Ω 12.600 Ω 835.56 pH
3 2.5000000 GHz 35.409 Ω 10.383 Ω 661.01 pH
4 2.7000000 GHz 58.381 Ω 34.724 Ω 2.0469 nH
5 3.3000000 GHz 48.375 Ω -24.877 Ω 1.9387 pF
>6 4.2000000 GHz 39.222 Ω 27.496 Ω 1.0419 nH
1 Start 1 GHz
IFBW 70 kHz
Stop 6 GHz
PExt Cor

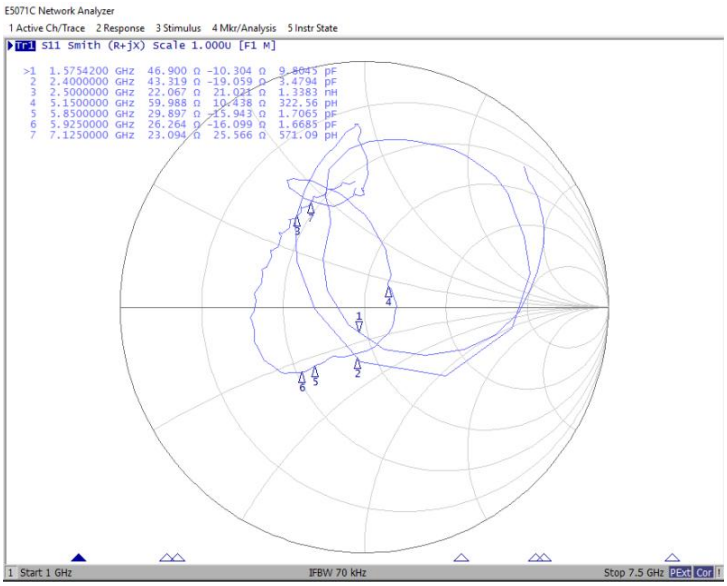

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1 M]
>1 1.1760000 GHz 1.3805
2 2.4000000 GHz 2.5926
3 2.5000000 GHz 1.3409
4 5.1500000 GHz 2.3172
5 5.8500000 GHz 2.0271
6 5.9250000 GHz 2.1841
7 7.1250000 GHz 2.3666
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 1 GHz
IFBW 70 kHz
Stop 7.5 GHz

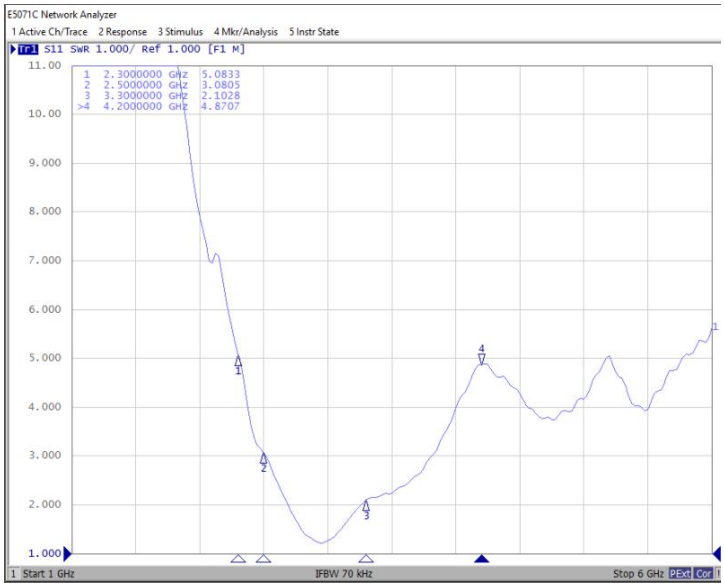

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]
>1 1.1760000 GHz -16.774 dB
2 2.4000000 GHz -7.0900 dB
3 2.5000000 GHz -17.173 dB
4 5.1500000 GHz -8.0241 dB
5 5.8500000 GHz -9.3926 dB
6 5.9250000 GHz -8.5951 dB
7 7.1250000 GHz -7.8370 dB
10.00
5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
1 Start 1 GHz
IFBW 70 kHz
Stop 7.5 GHz

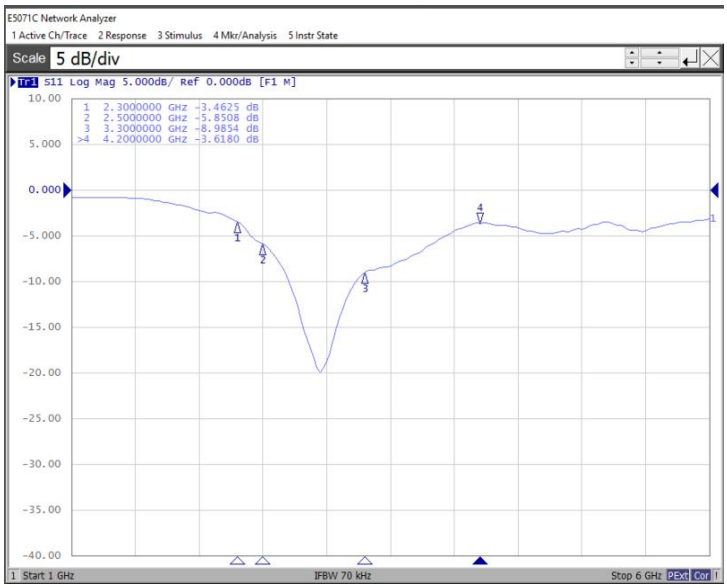

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1 M]
>1 1.1760000 GHz 50.637 Ω 6.3780 Ω 863.17 pH
2 2.4000000 GHz 122.12 Ω 27.546 Ω 1.8267 nH
3 2.5000000 GHz 66.913 Ω 502.08 mΩ 31.963 pH
4 5.1500000 GHz 40.726 Ω 32.908 Ω 1.1715 nH
5 5.8500000 GHz 28.825 Ω 17.338 Ω 471.69 pH
6 5.9250000 GHz 26.422 Ω 17.075 Ω 456.67 pH
7 7.1250000 GHz 28.454 Ω 25.635 Ω 572.63 pH
1 Start 1 GHz
IFBW 70 kHz
Stop 7.5 GHz

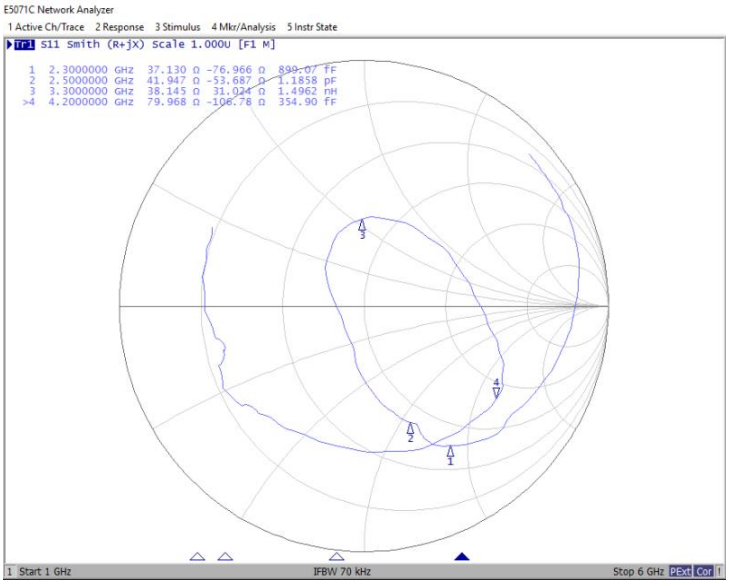

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1 M]
>1 1.5754200 GHz 1.2923
2 2.4000000 GHz 1.5659
3 2.5000000 GHz 2.7585
4 5.1500000 GHz 1.3014
5 5.8500000 GHz 1.9205
6 5.9250000 GHz 2.1660
7 7.1250000 GHz 2.8420
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 1 GHz
IFBW 70 kHz
Stop 7.5 GHz


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]
>1 1.5754200 GHz -18.455 dB
2 2.4000000 GHz -13.134 dB
3 2.5000000 GHz -6.6541 dB
4 5.1500000 GHz -17.661 dB
5 5.8500000 GHz -10.037 dB
6 5.9250000 GHz -8.6829 dB
7 7.1250000 GHz -6.3887 dB
10.00
5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
87%
1 Start 1 GHz
IFBW 70 kHz
Stop 7.5 GHz


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1 M]
>1 1.5754200 GHz 46.900 Ω -10.304 Ω 9.8043 pF
2 2.4000000 GHz 43.319 Ω -19.059 Ω 3.4794 pF
3 2.5000000 GHz 22.067 Ω 21.021 Ω 1.3383 nH
4 5.1500000 GHz 59.988 Ω 10.438 Ω 322.56 pH
5 5.8500000 GHz 29.897 Ω -15.943 Ω 1.7065 pF
6 5.9250000 GHz 26.264 Ω -16.099 Ω 1.6685 pF
7 7.1250000 GHz 23.094 Ω 25.566 Ω 571.09 pH
1 Start 1 GHz
IFBW 70 kHz
Stop 7.5 GHz

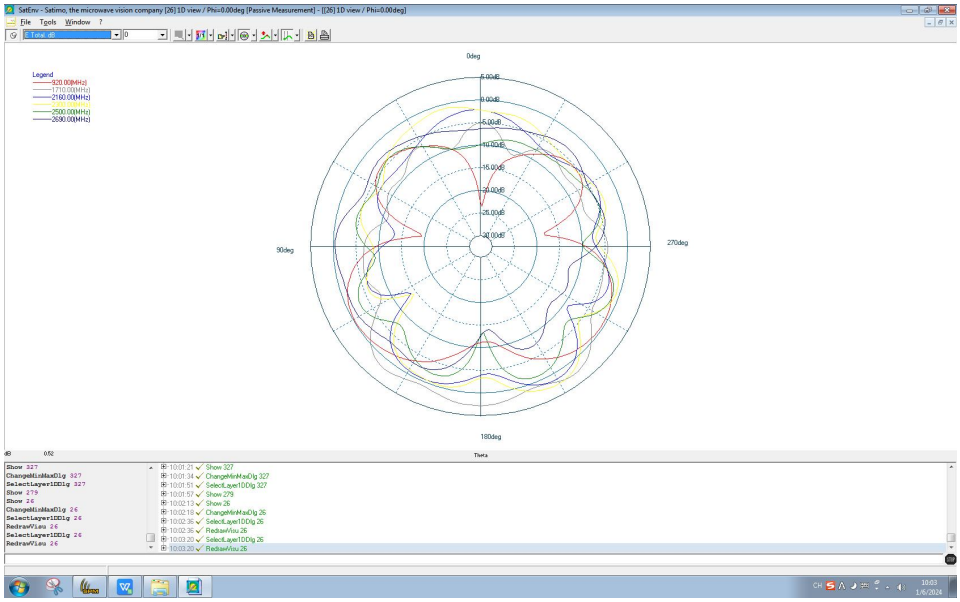

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1 M]
1 2.3000000 GHz 5.0833
2 2.5000000 GHz 3.0805
3 3.3000000 GHz 2.1028
>4 4.2000000 GHz 4.8707
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 1 GHz
IFBW 70 kHz
Stop 6 GHz


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Scale 5 dB/div
Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]
1 2.3000000 GHz -3.4625 dB
2 2.5000000 GHz -5.8508 dB
3 3.3000000 GHz -8.9854 dB
>4 4.2000000 GHz -3.6180 dB
10.00
5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.00
1 Start 1 GHz
IFBW 70 kHz
Stop 6 GHz

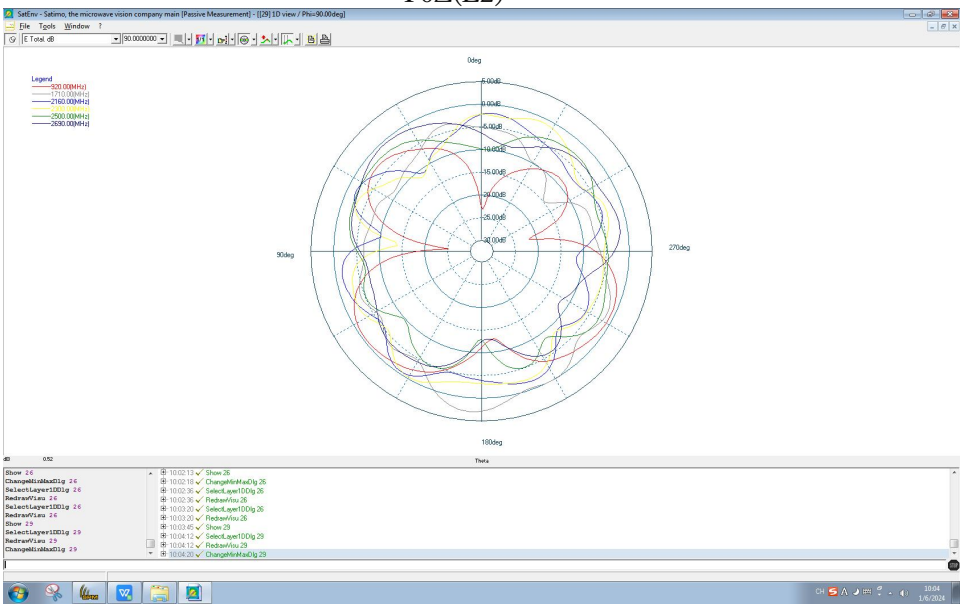

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (R+jX) Scale 1.000U [F1 M]
1 2.3000000 GHz 37.130 Ω -76.966 Ω 899.07 fF
2 2.5000000 GHz 41.947 Ω -53.687 Ω 1.1858 pF
3 3.3000000 GHz 38.145 Ω 31.024 Ω 1.4962 nH
>4 4.2000000 GHz 79.968 Ω -106.78 Ω 354.90 fF
1 Start 1 GHz
IFBW 70 kHz
Stop 6 GHz

2D/3D Radiation Pattern Results

ANT0 X0Z(E1)



Y0Z(E2)



XOY(H)