

Shenzhen Lianxingchuang Electronic Technology Co., Ltd.

Building C, Factory 401, Jinruihua Optoelectronic Technology Co., Ltd., Daowan Industrial Zone,
Huarong Community, Langhuan District, Shenzhen City

Comprehensive Test Report of Yellow Wi-Fi Antenna

RF: Tang Hongjiao

TEL:13713593032

June 18,2024



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Catalogu
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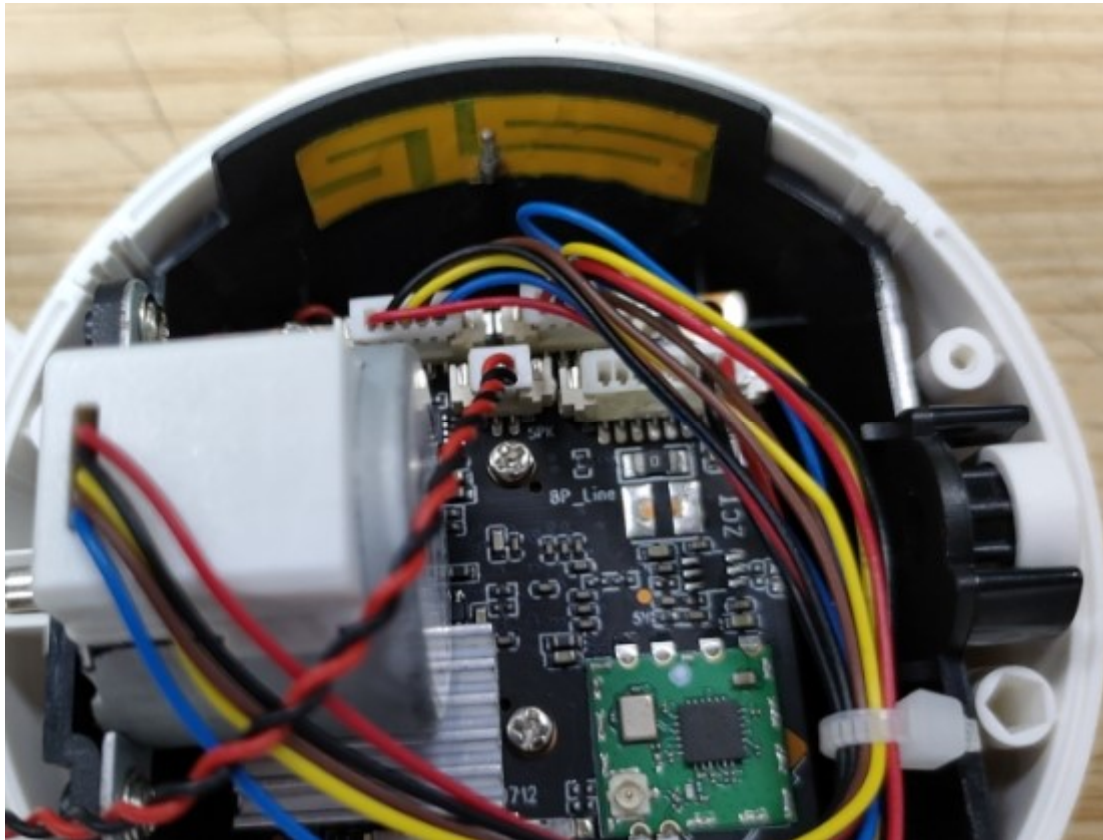
Project Status
Contact Person
Antenna Version Information
testing environment
Matching circuit
Active test data
Call-induced acoustic testing
Actual measured performance and environmental handling of the GPS/Wi-Fi antenna
Performance Risk Warning



1.Project Status

Motherboard						
Main antenna	Frequency range		Antenna status	Antenna type	Design Area	Matched changes
	WIFI	2400MHz-5850MHz				/

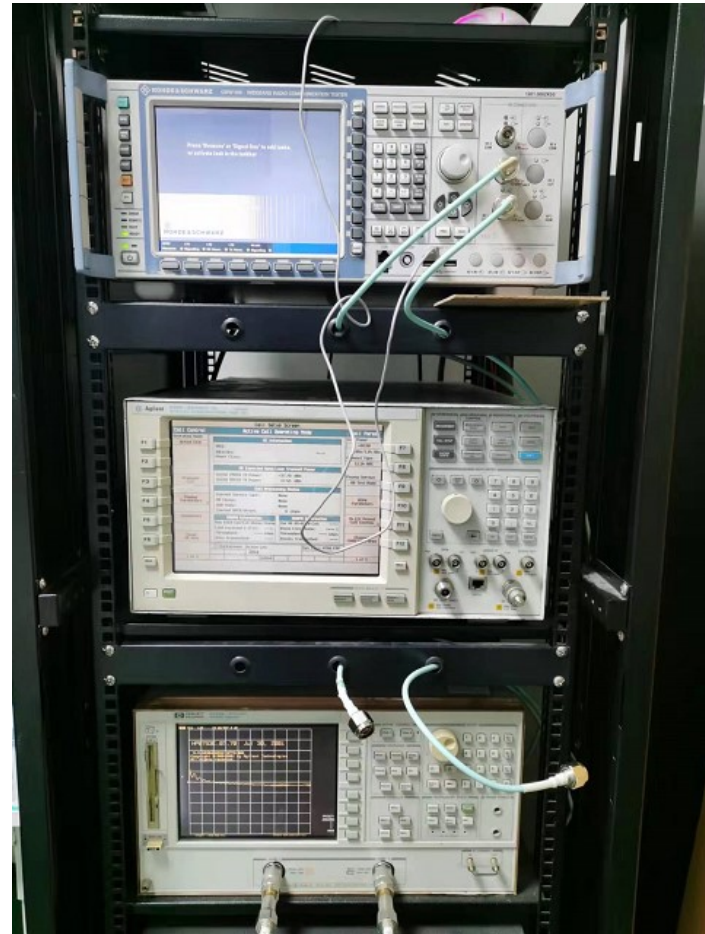
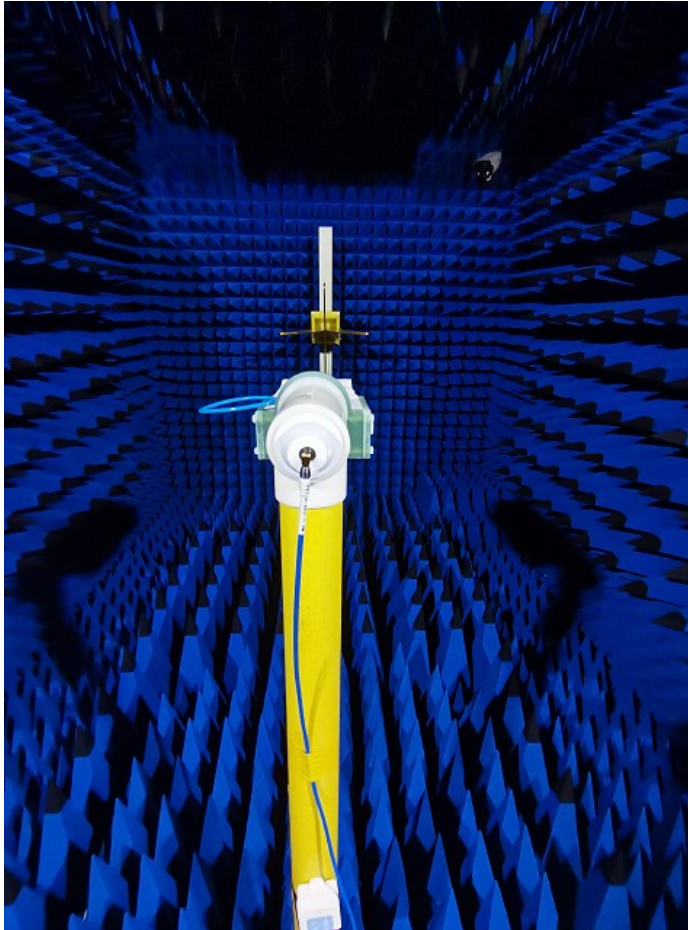
Antenna Position



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.Testing Environment



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Active Test Data

Antenna Test Report	802. 11B Antenna Performance Table			802. 11G Antenna Performance Table		
Channel	CH 1	CH 6	CH11	CH 1	CH 6	CH 11
Max Power (dBm)	20.3	20.5	20.7	20.3	19.5	19.9
TRP(dBm)	17.2	17.4	17.8	17.4	16.6	16.8
Sensitivity (dBm)	-89.5	-89.7	-90.3	-78.5	-78.7	-79.9
TIS(dBm)	-87.3	-87.6	-88.9	-76.7	-76.9	-77.5

Antenna Test Report	802. 11N Antenna Performance Table		
Channel	CH1	CH6	CH11
Max Power (dBm)	18.4	18.5	19.7
TRP(dBm)	16.7	16.9	17.3
Sensitivity (dBm)	-72.3	-72.5	-72.8
TIS(dBm)	-69.5	-69.8	-70.3

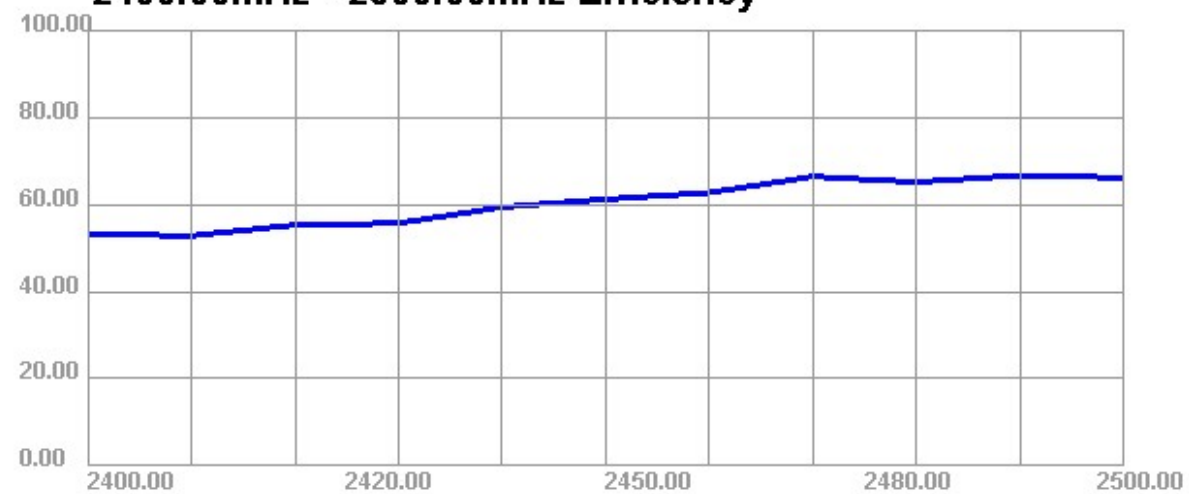
Passive Test Report

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	52.18	-2.74	2.09
2410	52.84	-2.77	2.23
2420	53.31	-2.57	2.37
2430	55.72	-2.54	2.48
2440	56.42	-2.26	2.56
2450	56.53	-2.13	2.61
2460	57.34	-2.02	2.65
2470	57.43	-1.78	2.69
2480	58.16	-1.86	2.72
2490	59.27	-1.76	2.79
2500	60.16	-1.79	2.83

2400.00MHz - 2500.00MHz Gain

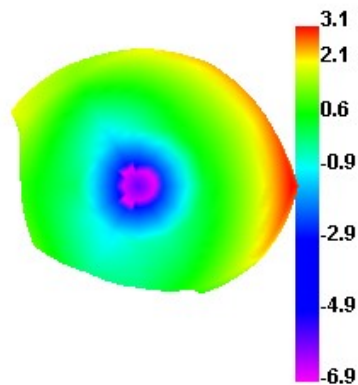


2400.00MHz - 2500.00MHz Efficiency

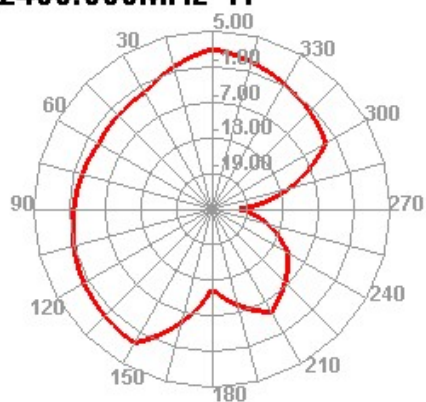




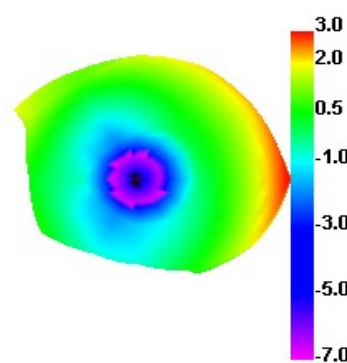
2400.000MHz



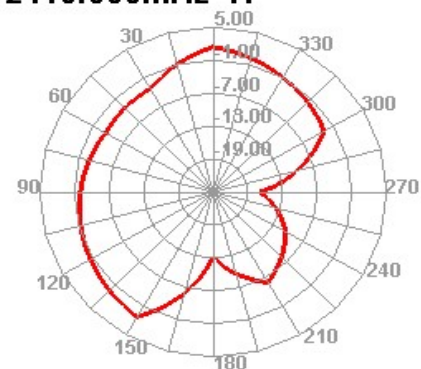
2400.000MHz H



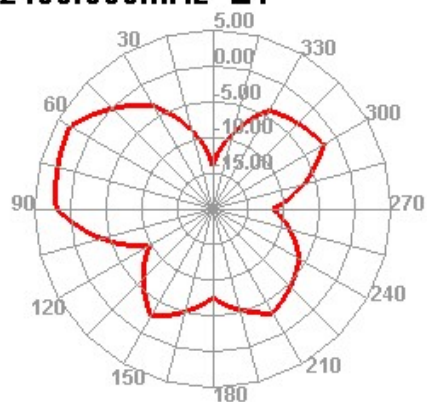
2410.000MHz



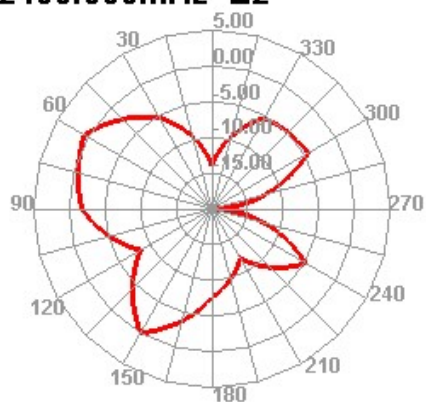
2410.000MHz H



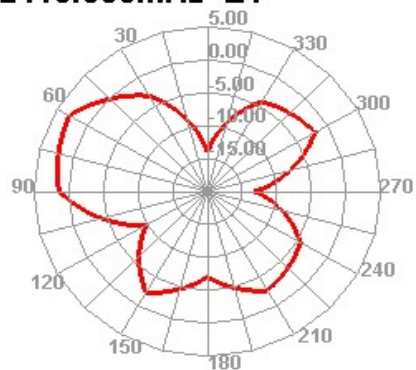
2400.000MHz E1



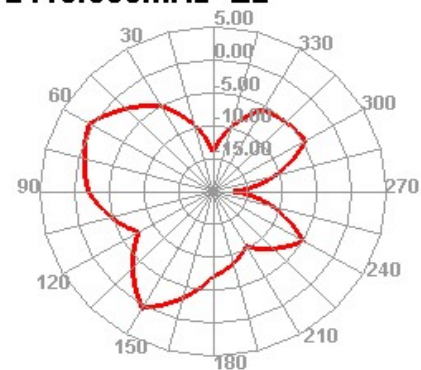
2400.000MHz E2



2410.000MHz E1



2410.000MHz E2



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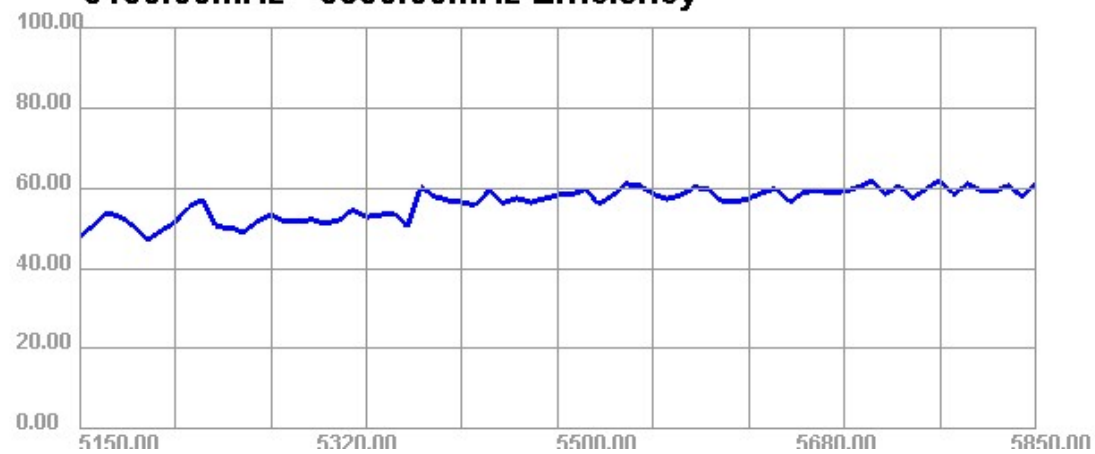
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	50.84	-3.2	2.55
5160	50.91	-2.95	2.44
5170	53.82	-2.69	2.46
5180	52.88	-2.77	2.64
5190	50.48	-2.97	2.66
5200	49.24	-3.26	2.32
5210	49.42	-3.06	2.33
5220	51.52	-2.88	2.56
5230	55.3	-2.57	2.93
5240	57.23	-2.42	2.28
5250	50.33	-2.98	2.09
5260	50.22	-2.99	2.17
5270	48.98	-3.1	2.03
5280	51.73	-2.86	2.11
5290	53.3	-2.73	2.46
5300	51.79	-2.86	2.49
5310	51.68	-2.87	2.94
5320	52.18	-2.83	3.01
5330	51.18	-2.91	2.68
5340	52.01	-2.84	2.68
5350	54.68	-2.62	3.09
5360	52.86	-2.77	3.01
5370	53.3	-2.73	3.09
5380	53.78	-2.69	3.11
5390	50.33	-2.98	2.71
5400	60.27	-2.2	3.47
5410	57.92	-2.37	3.4
5420	56.91	-2.45	3.31
5430	56.42	-2.49	3.23
5440	55.8	-2.53	3.46
5450	59.59	-2.25	3.69
5460	56.29	-2.5	3.43
5470	57.54	-2.4	3.5
5480	56.43	-2.48	3.49
5490	57.37	-2.41	3.47
5500	58.29	-2.34	3.63

5510	58.34	-2.34	3.42
5520	59.76	-2.24	3.51
5530	56.02	-2.52	3.7
5540	58.12	-2.36	3.37
5550	61.06	-2.14	3.13
5560	60.62	-2.17	3.87
5570	58.55	-2.32	3.98
5580	57.27	-2.42	3.82
5590	58.2	-2.35	3.56
5600	60.17	-2.21	3.55
5610	59.79	-2.23	3.79
5620	56.76	-2.46	3.68
5630	56.56	-2.47	3.7
5640	57.45	-2.41	3.6
5650	58.91	-2.3	3.62
5660	59.94	-2.22	3.88
5670	56.49	-2.48	3.92
5680	58.98	-2.29	3.72
5690	59.39	-2.26	3.15
5700	58.88	-2.3	3.96
5710	59.26	-2.27	3.85
5720	60.22	-2.2	3.91
5730	61.8	-2.09	3.46
5740	58.63	-2.32	3.45
5750	60.52	-2.18	3.48
5760	57.48	-2.4	3.64
5770	59.96	-2.22	3.69
5780	61.97	-2.08	3.71
5790	58.48	-2.33	3.24
5800	61.07	-2.14	3.27
5810	59.34	-2.27	3.2
5820	59.25	-2.27	3.53
5830	60.59	-2.18	3.98
5840	57.94	-2.37	3.53
5850	61.11	-2.14	3.79

5150.00MHz - 5850.00MHz Gain



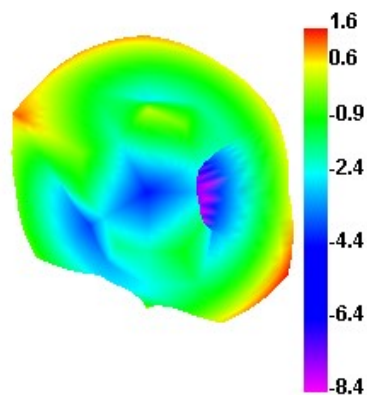
5150.00MHz - 5850.00MHz Efficiency



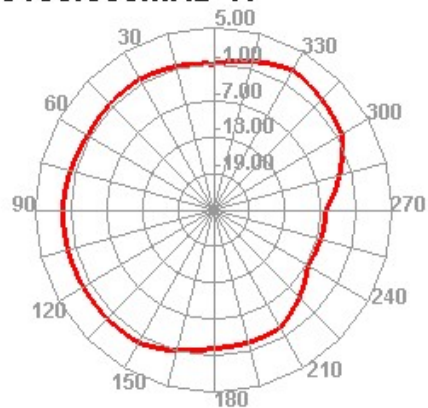
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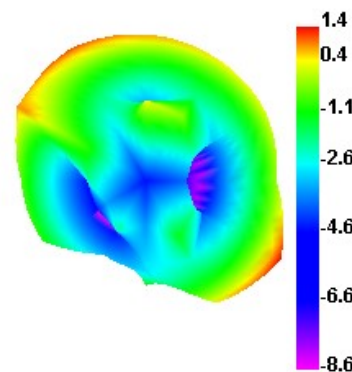
5150.000MHz



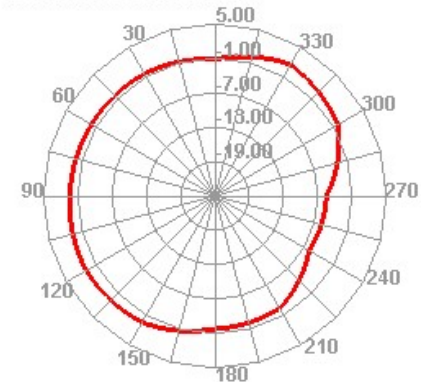
5150.000MHz H



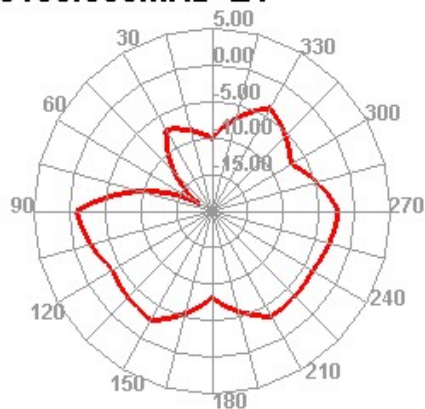
5160.000MHz



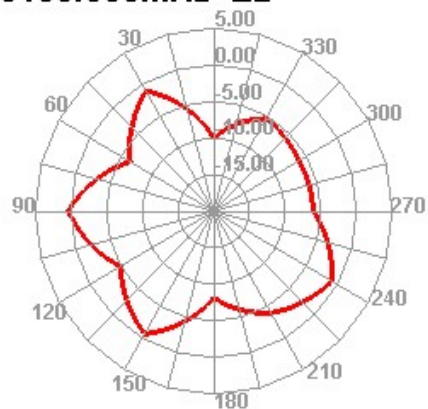
5160.000MHz H



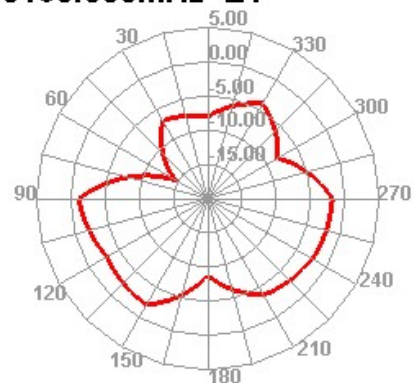
5150.000MHz E1



5150.000MHz E2



5160.000MHz E1



5160.000MHz E2

