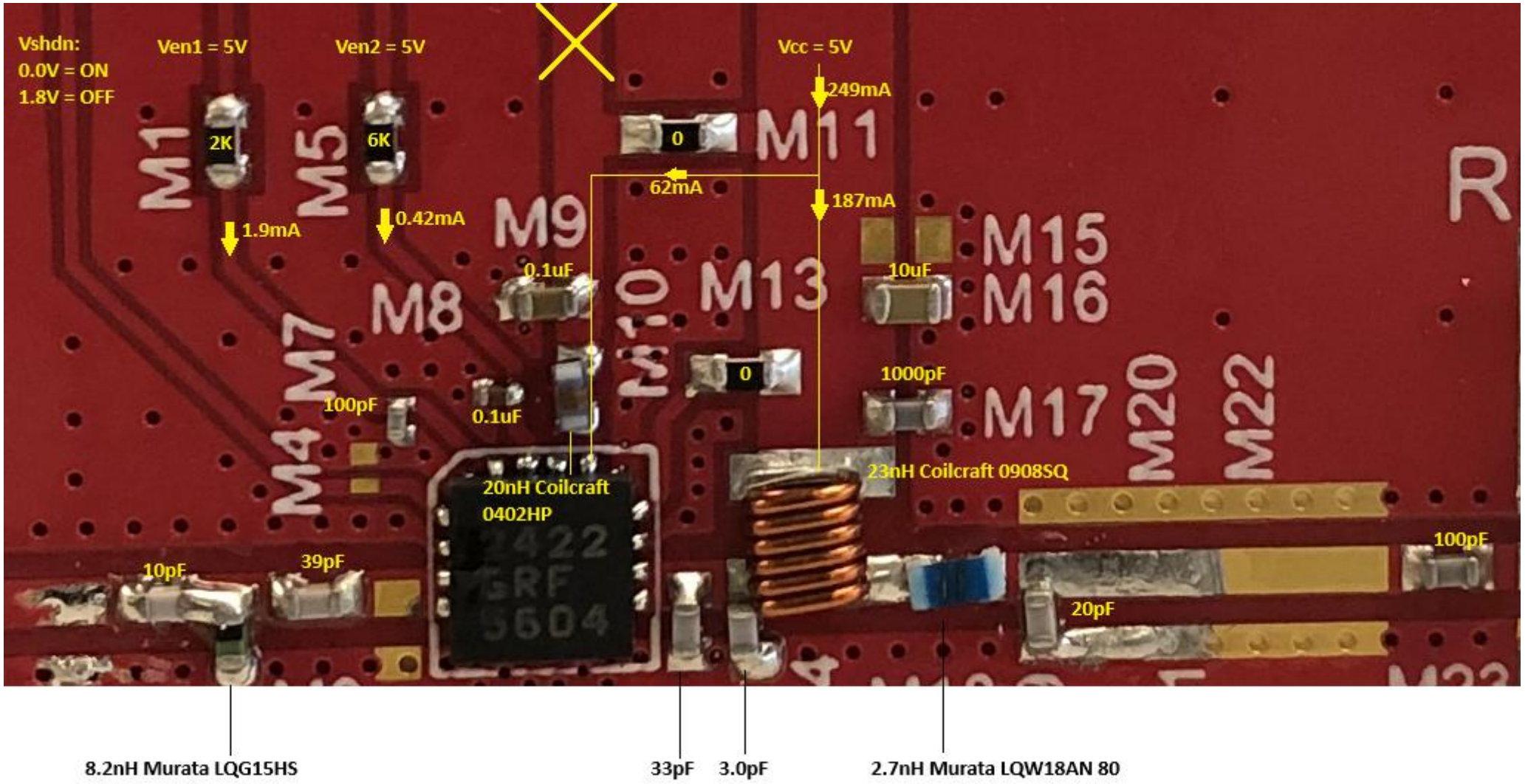
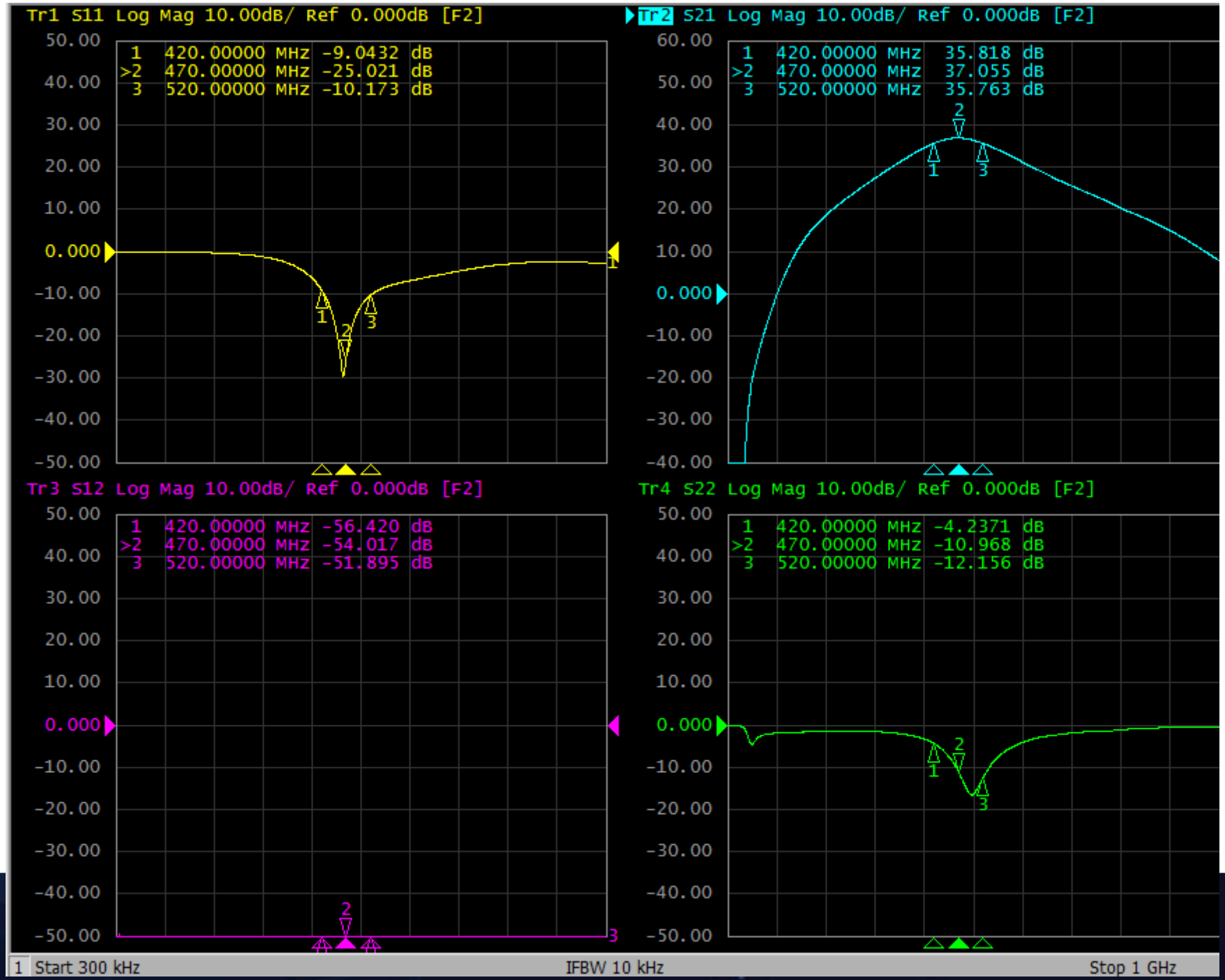

GUERRILLARF®
GRF5604
EVB222
420-520 MHz
11/4/26

Schematic:


Vshdn:
0.0V = ON
1.8V = OFF
Ven1 = 5V
Ven2 = 5V
Vcc = 5V
249mA
M1
2K
M5
6K
0
M11
62mA
187mA
1.9mA
0.42mA
M9
M15
0.1uF
M8
M13
10uF
M16
M7
M10
0
1000pF
100pF
0.1uF
M17
M20
M22
M4
20nH Coilcraft
0402HP
23nH Coilcraft 0908SQ
100pF
10pF
39pF
20pF
8.2nH Murata LQG15HS
33pF
3.0pF
2.7nH Murata LQW18AN 80

Response:


Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]
1 420.00000 MHz -9.0432 dB
>2 470.00000 MHz -25.021 dB
3 520.00000 MHz -10.173 dB
Tr2 S21 Log Mag 10.00dB/ Ref 0.000dB [F2]
1 420.00000 MHz 35.818 dB
>2 470.00000 MHz 37.055 dB
3 520.00000 MHz 35.763 dB
Tr3 S12 Log Mag 10.00dB/ Ref 0.000dB [F2]
1 420.00000 MHz -56.420 dB
>2 470.00000 MHz -54.017 dB
3 520.00000 MHz -51.895 dB
Tr4 S22 Log Mag 10.00dB/ Ref 0.000dB [F2]
1 420.00000 MHz -4.2371 dB
>2 470.00000 MHz -10.968 dB
3 520.00000 MHz -12.156 dB
1 Start 300 kHz
IFBW 10 kHz
Stop 1 GHz

Standard Data:

Descriptor	Freq MHz	Vcc V	Ven V	Ven2V	Vstby	Iccq mA	Ien mA	Ien2 mA	IP3 Tone Power dBm	IP3 Tone Spacing MHz	gain dB	OIP3 dBm	OP1dB dBm	Eff %	EVB NF dB
GRF5604 EVB222	420	5	5	5	0	249	1.9	0.4	25	0.6	36.2	40.2	33.6	39.6	4.1
GRF5604 EVB222	440	5	5	5	0	249	1.9	0.4	25	0.6	37.2	40	35.1	48.9	3.7
GRF5604 EVB222	460	5	5	5	0	249	1.9	0.4	25	0.6	37.8	39.7	36.3	57.4	3.5
GRF5604 EVB222	480	5	5	5	0	249	1.9	0.5	25	0.6	37.5	39.8	36.1	51.5	3.4
GRF5604 EVB222	500	5	5	5	0	249	1.9	0.4	25	0.6	36.9	40.7	35.2	43.4	3.3
GRF5604 EVB222	520	5	5	5	0	249	1.9	0.4	25	0.6	35.8	42.4	34.2	39.2	3.5

Saturated Output Power:

Descriptor	Freq MHz	Vcc V	Ven V	Ven2V	Vstby	Iccq mA	Ien mA	Ien2 mA	Pin dBm	Psat dBm	gain dB	Eff %
Psat	420	5	5	5	0	249	1.9	0.4	5	34.8	29.8	45.6
Psat	440	5	5	5	0	249	1.9	0.4	5	36.1	31.1	54.3
Psat	460	5	5	5	0	249	1.9	0.4	5	36.9	31.9	62.4
Psat	480	5	5	5	0	249	1.9	0.4	5	36.9	31.9	61
Psat	500	5	5	5	0	249	1.9	0.4	5	36	31	46.7
Psat	520	5	5	5	0	249	1.9	0.5	5	35.1	30.1	39.4



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