

| Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω DC SENSE:INT | | |
|--|--|-------------------------------------|
| Center Freq 2.355000000 GHz NFE PNO: Fast | ALIGN AUTO 10:04:16 PM Jul 05, 2021 #Avg Type: RMS TRACE 1 2.3 4 5 6 Avg Hold: 300/300 TYPE M WWW DET P P P P P P | Frequency |
| Ref Offset 9.37 dB 10 dB/div Ref 20.00 dBm | Mkr5 2.324 86 GHz -51.681 dBm | Auto Tune |
| Log 10.0 | | Center Freq 2.35500000 GHz |
| -10.0 | DL1-23.11 40m | |
| -30.0 | | Start Freq 2.30000000 GHz |
| | and we will be a stand of the s | Stop Freq 2.41000000 GHz |
| *700 Start 2.30000 GHz #Res BW 100 kHz #VBW 300 kHz | Stop 2.41000 GHz Sweep 4.067 ms (1001 pts) | CF Step 11.00000 MHz |
| MRR MODE TRC SCL X Y FU | AU | |
| 2 N 1 f 2.400 00 GHz -54,617 dBm 3 N 1 f 2.390 00 GHz -53,457 dBm 4 N 1 f 2.310 00 GHz -53,705 dBm 6 N 1 f 2.324 86 GHz -51,681 dBm | | Freq Offset 0 Hz |
| 7 8 9 | | Scale Type |
| | , * Lo | <u>9 Lin</u> |
| 3DH5_Ant1_Lo | | |
| Keysight Spectrum Analyzer - Swept SA | Jw_110p_2402 | |
| Center Freq 2.510000000 GHz Freq R.L RF Freq Run Freq So DC Fre | ALIGN AUTO 10:07:17 PM Jul 05, 2021 #Avg Type: RMS TRACE 1 2 3 4 5 6 Avg Hold: 300/300 TYPE M WWWWW DET (P P P P P P | Frequency |
| Ref Offset 9.51 dB 10 dB/div Ref 20.00 dBm | Mkr4 2.528 48 GHz -50.484 dBm | Auto Tune |
| 10.00 | | Center Freq 2.51000000 GHz |
| -10.0 | DL1 -10 91 dBm | Start Freq |
| -30.0 -40.0 -50.0 | ▲ ▲ | 2.47000000 GHz |
| -20.0 -20.0 -70.0 | all and a second of the second | Stop Freq 2.550000000 GHz |
| Start 2.47000 GHz #Res BW 100 kHz #VBW 300 kHz | Stop 2.55000 GHz Sweep 3.000 ms (1001 pts) | CF Step 8.000000 MHz |
| MINE MODE TEC SEL X Y EU 1 N 1 f 2.476 08 GHz 1.091 dBm | CTION FUNCTION WIDTH FUNCTION VALUE | to Man |
| 2 N 1 f 2.483 50 GHz -53.642 dBm 3 N 1 f 2.500 00 GHz -52.292 dBm 4 N 1 f 2.528 48 GHz -50.484 dBm 5 | | Freq Offset 0 Hz |
| 6 7 8 9 | | Scale Type |
| 10 | - Lo | 9 Lin |
| • | · · · · · · · · · · · · · · · · · · · | |
| 3DH5_Ant1_Hi | STATUS | |

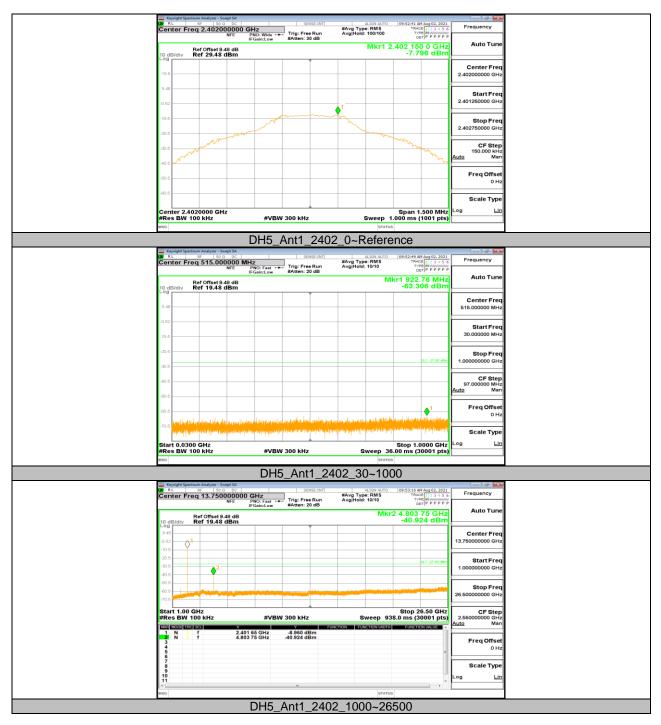


11.8. Appendix H: Conducted Spurious Emission 11.8.1. Test Result

| Test Mode | Antenna | Channel | Freq Range Result [MHz] [dBm] | | Limit [dBm] | Verdict |
|-----------|---------|---------|----------------------------------|--------|----------------|---------|
| DH5 | Ant1 | 2402 | Reference | -7.80 | | PASS |
| | | | 30~1000 | -63.31 | <=-27.8 | PASS |
| | | | 1000~26500 | -40.92 | <=-27.8 | PASS |
| | | 2441 | Reference | -7.01 | | PASS |
| | | | 30~1000 | -63.55 | <=-27.01 | PASS |
| | | | 1000~26500 | -40.72 | <=-27.01 | PASS |
| | | 2480 | Reference | -6.59 | | PASS |
| | | | 30~1000 | -63.92 | <=-26.59 | PASS |
| | | | 1000~26500 | -39.1 | <=-26.59 | PASS |
| 3DH5 | Ant1 | 2402 | Reference | 1.39 | | PASS |
| | | | 30~1000 | -63.28 | <=-18.61 | PASS |
| | | | 1000~26500 | -40.49 | <=-18.61 | PASS |
| | | 2441 | Reference | 0.48 | | PASS |
| | | | 30~1000 | -63.62 | <=-19.52 | PASS |
| | | | 1000~26500 | -40.22 | <=-19.52 | PASS |
| | | 2480 | Reference | 0.78 | | PASS |
| | | | 30~1000 | -63.61 | <=-19.23 | PASS |
| | | | 1000~26500 | -40.21 | <=-19.23 | PASS |



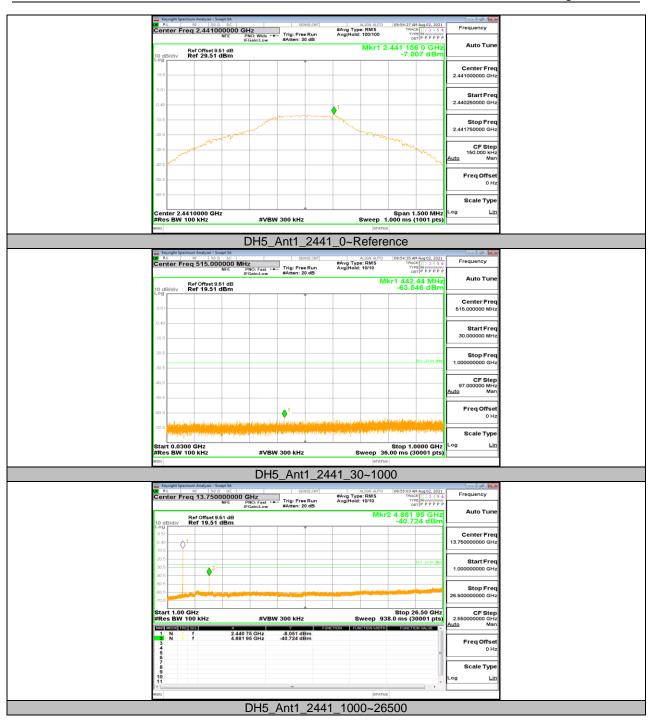
11.8.2. Test Graphs



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11.9. Appendix I: Duty Cycle 11.9.1. Test Result

| Mode | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|------|-------------------|------------------|--------------------------------|----------------------|--|--------------------------------|--------------------------------------|
| DH5 | 2.88 | 3.75 | 0.7680 | 76.80 | 1.15 | 0.35 | 0.5 |
| 3DH5 | 2.89 | 3.75 | 0.7707 | 77.07 | 1.13 | 0.35 | 0.5 |

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.



11.9.2. Test Graphs



END OF REPORT