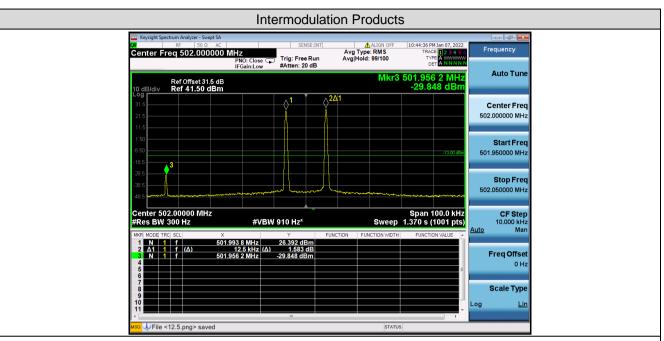




Appendix H - Noise

Test Data:



Remark:

According to the declaration from the application, the single antenna gain should not exceed 0dBi, the Directional gain = G(ANT) + 10*log(NANT) dBi = 0dBi + 10*log(1) dBi = 0dBi.

ERP = EIRP-2.15dB

The conducted max intermodulation product is -29.848dBm/300Hz = -24.619dBm/10kHz, ERP of intermodulation products is -24.619dBm/10kHz + 0dBi - 2.15dB = -26.769dBm/10kHz.

Applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed the level -30dBm in 10kHz measurement bandwidth.



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Moise outside of the passband Avg Type: RMS Avg|Hold:>1/1 Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Auto Tun -65.501 dBn Center Freq 217.550000 MH: Start Free 30.000000 MH Stop Free 405.100000 MH: **CF Step** 37.510000 MHz <u>o</u> Mar Freq Offse Scale Type Stop 405.1 MHz Sweep 4.628 s (20001 pts) Start 30.0 MHz #Res BW 10 kHz #VBW 30 kHz* Moise outside of the passband Marker 1 513.274350000 MHz PNO: Fast PNO: Fast Aften: 10 dB Avg Type: RMS Avg|Hold: 1/1 Peak Search Next Peal Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lv Stop 6.000 GHz Sweep 67.70 s (20001 pts) 1 of 2 Start 0.513 GHz #Res BW 10 kHz #VBW 30 kHz*

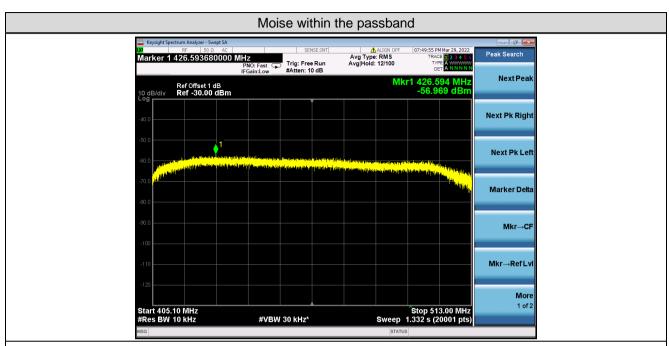


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Remark:

According to the declaration from the application, the single antenna gain should not exceed 0dBi, the Directional gain = G(ANT) + 10*log(NANT) dBi = 0dBi + 10*log(1) dBi = 0dBi.

ERP = EIRP-2.15dB

The conducted max noise on spectrum more than 1MHz outside of the passband is -65.501dBm/10kHz, ERP of noise on spectrum more than 1MHz outside of the passband is -65.501dBm/10kHz + 0dBi -2.15dB = -67.651dBm/10kHz

The conducted max noise within the passband is -57.173dBm/10kHz, ERP of noise within the passband is -56.969dBm/10kHz + 0dBi -2.15dB = -59.119dBm/10kHz < -43dBm/10kHz

Applicant must use good engineering practice to make sure that the ERP of max noise on spectrum more than 1MHz outside of the passband should not exceed the level -70dBm in 10kHz measurement bandwidth.



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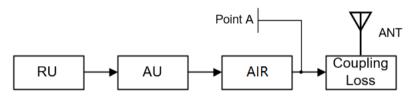
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Frequency Range (MHz)	Max Noise Figure	Max Noise Figure Limit
406.1 ~ 420	5.12	9
421 ~ 430	5.03	9
450 ~ 470	5.22	9
470 ~ 512	5.02	9

ERP noise = Test results at point A + Coupling Loss + Antenna Gain.

Remark:

The noise test results in the table are measured from point A. The test results plus the coupling loss and antenna gain will meet the noise radiation requirements of the signal booster, which is that the ERP of noise should not exceed -43 dBm in 10 kHz within passband and -70 dBm in 10 kHz more than 1 MHz outside of passband. Therefore, the coupling loss in engineering practice must be greater than 20dB to eliminate the interference.



Setting details were declared by manufacture and stated in the user manual.

The test screenshots below are only to record the case without engineering practice for reference.

406.1 ~ 420MHz:





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421 ~ 430MHz:



450 ~ 470MHz:





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470 ~ 512MHz:





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