

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Parameter	Measurement uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.57 dB
Power Spectral Density, conducted	±1.48dB
Unwanted Emissions, conducted	±1.57dB
All emissions, radiated	±4.0 dB
AC power line Conducted Emission	±2.0 dB
Temperature	±2 ° C
Humidity	±5 %
DC and low frequency voltages	±1.0 %
Time	±2 %
Duty Cycle	±3 %

1.7 Test Facility Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL's test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Industry Canada under Registration Numbers: 3062A-1, 3062A-2, and 3062A-3.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Appendix B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

BACL's test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0027.

1.8 Test Facility Accreditations

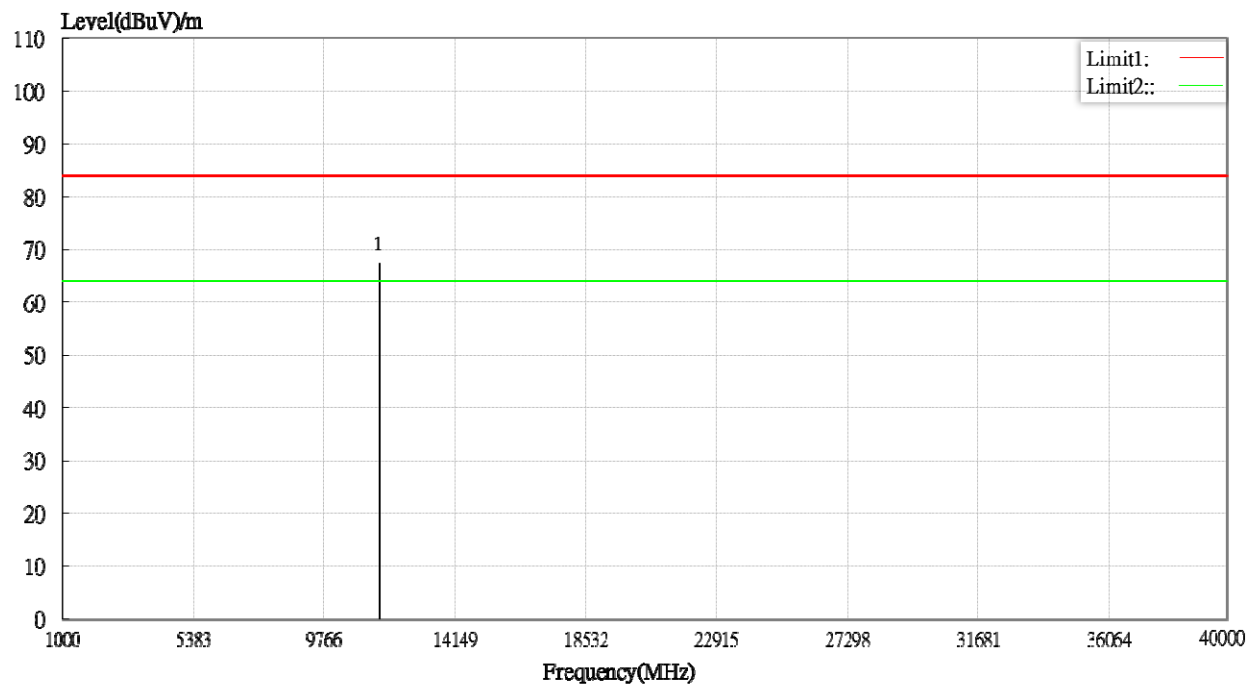
Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2005 by A2LA (Test Laboratory Accreditation Certificate Number 3279.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2005 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report..

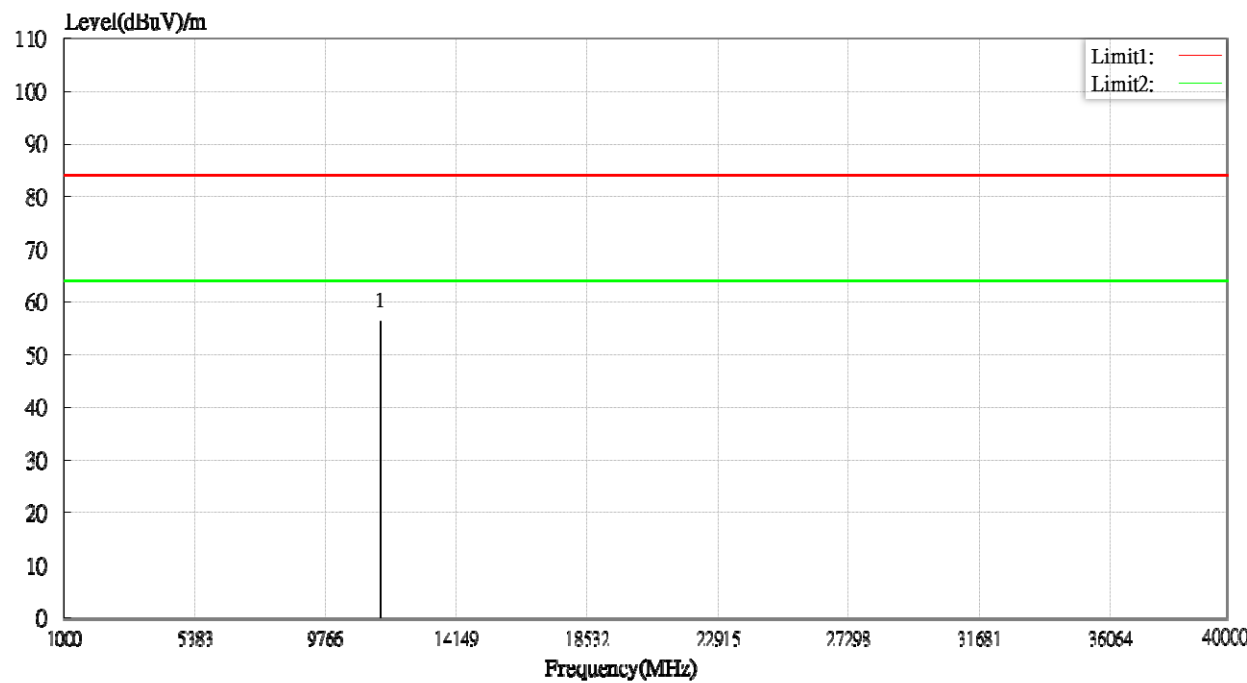
BACL's ISO/IEC 17025:2005 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio, RF Exposure, Safety and wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include Central Office Telecommunications Equipment [including NEBS - Network Equipment Building Systems], Unlicensed and Licensed Wireless and RF devices,

HT/VHT40 mode 5795 MHz Vertical REG

PK

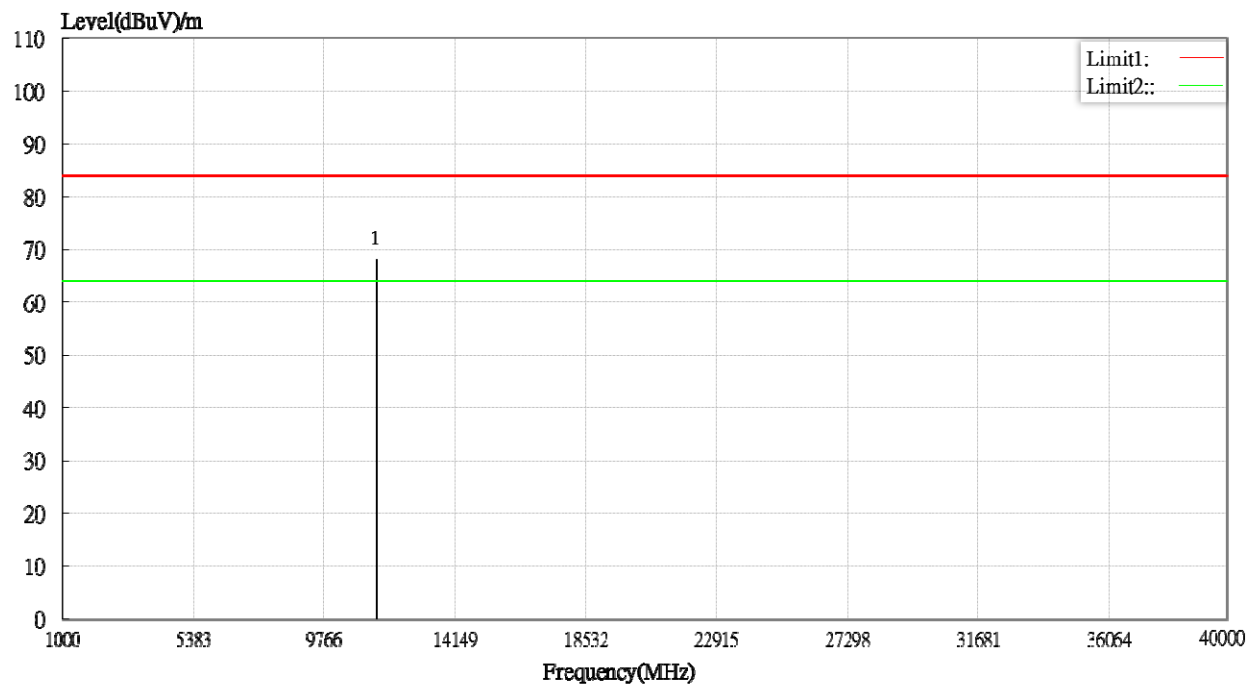


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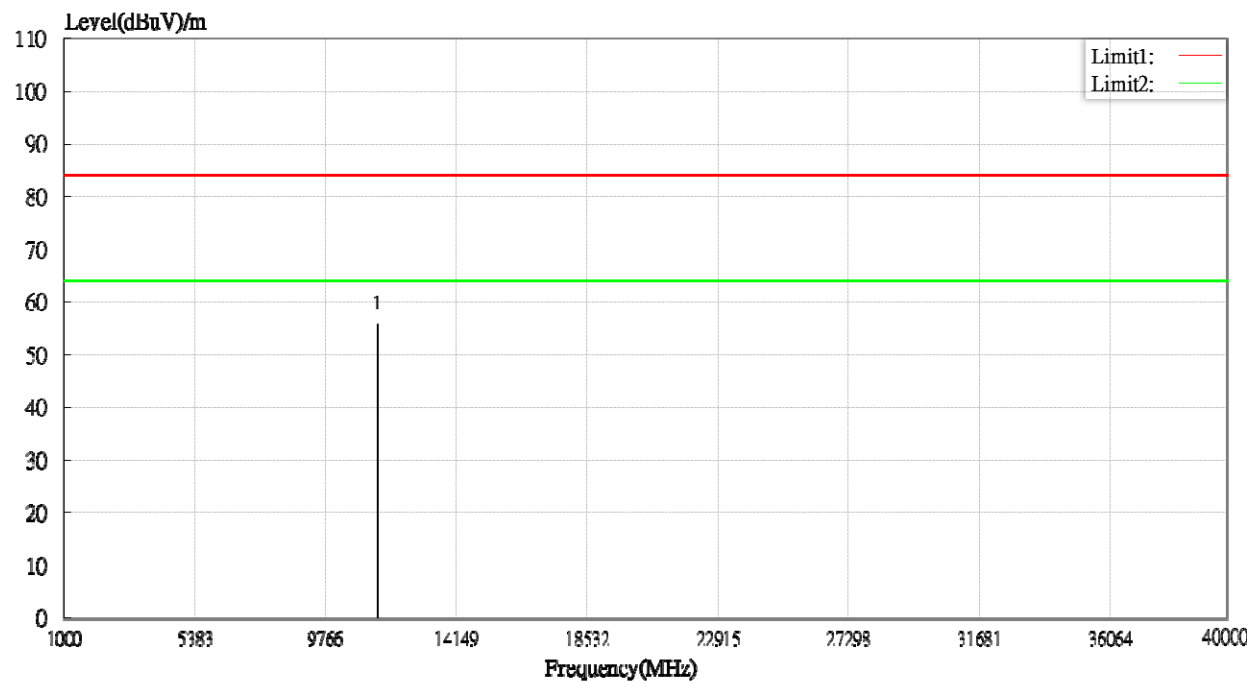


HE40 mode 5755 MHz Horizontal REG

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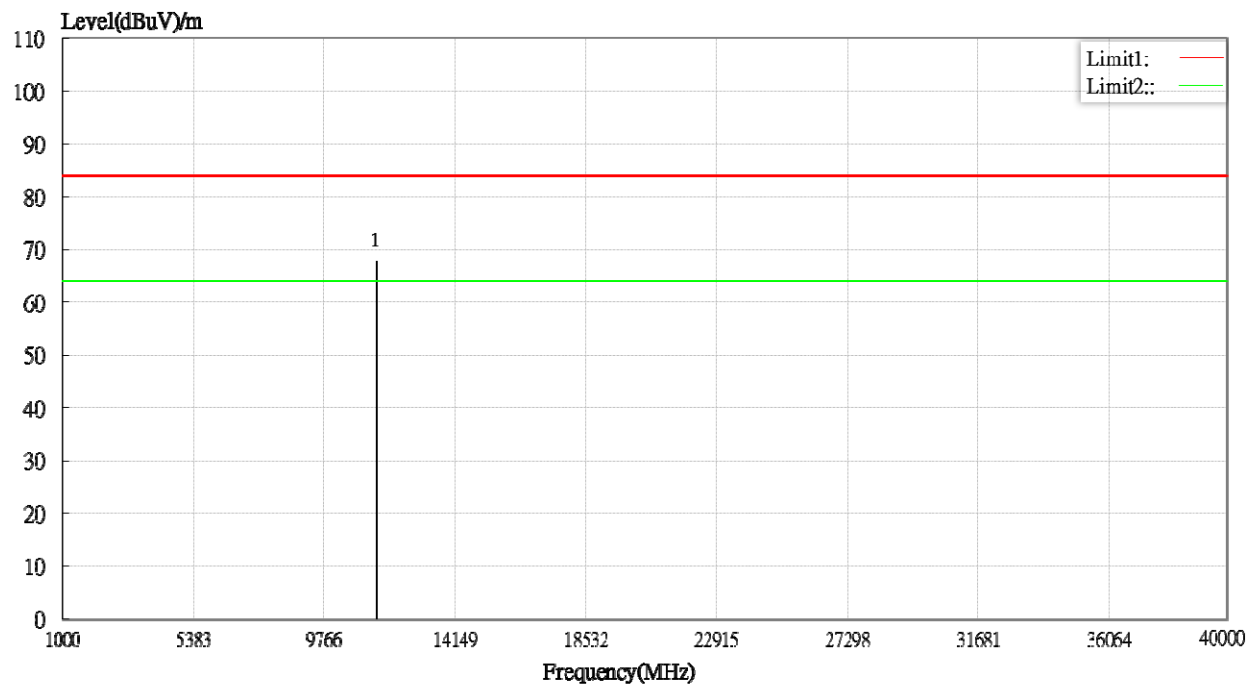


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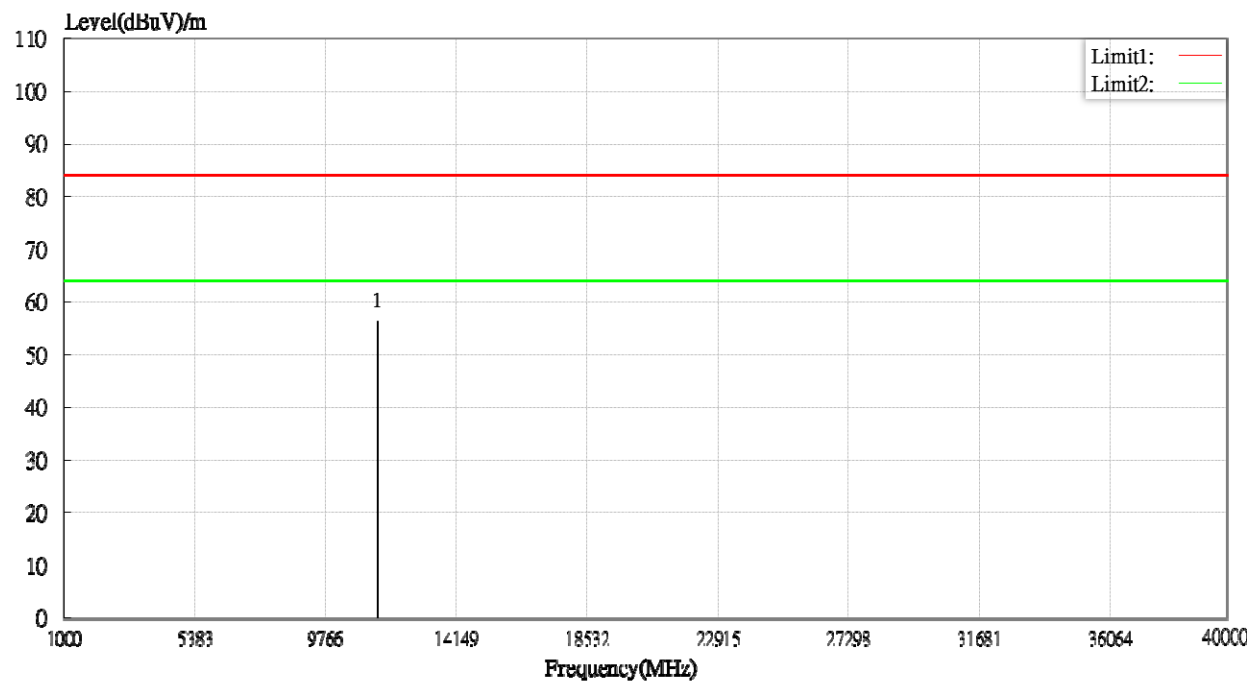


HE40 mode 5755 MHz Vertical REG

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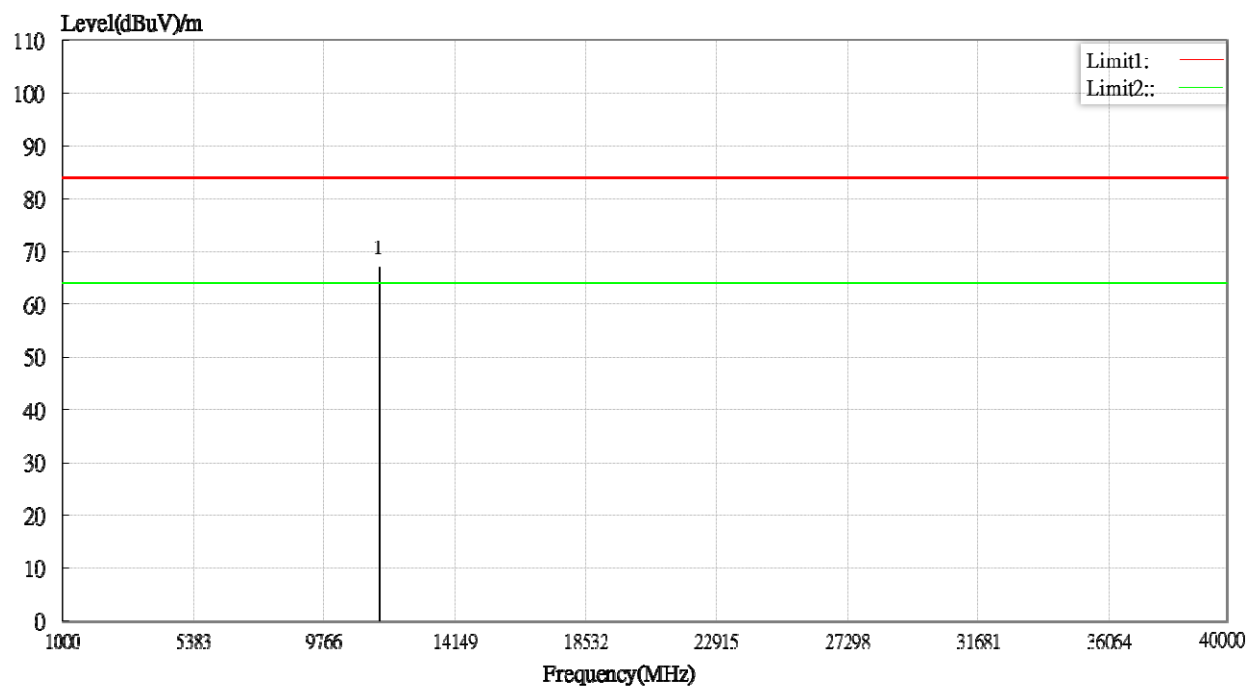


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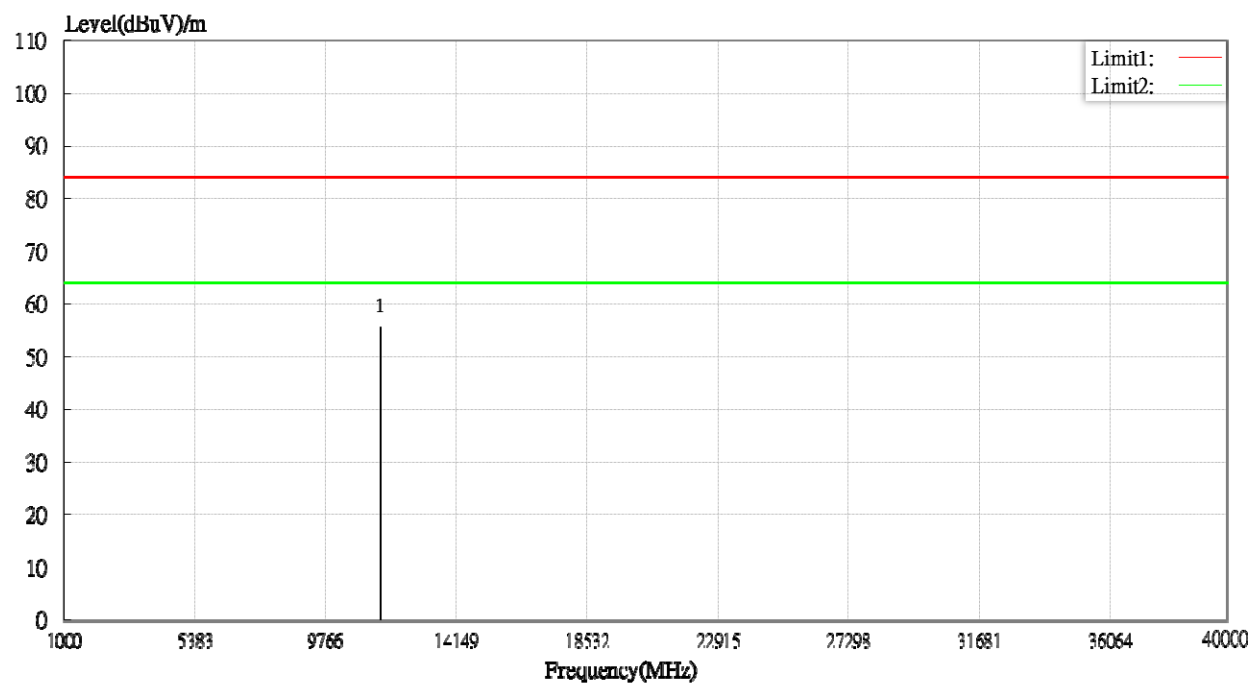


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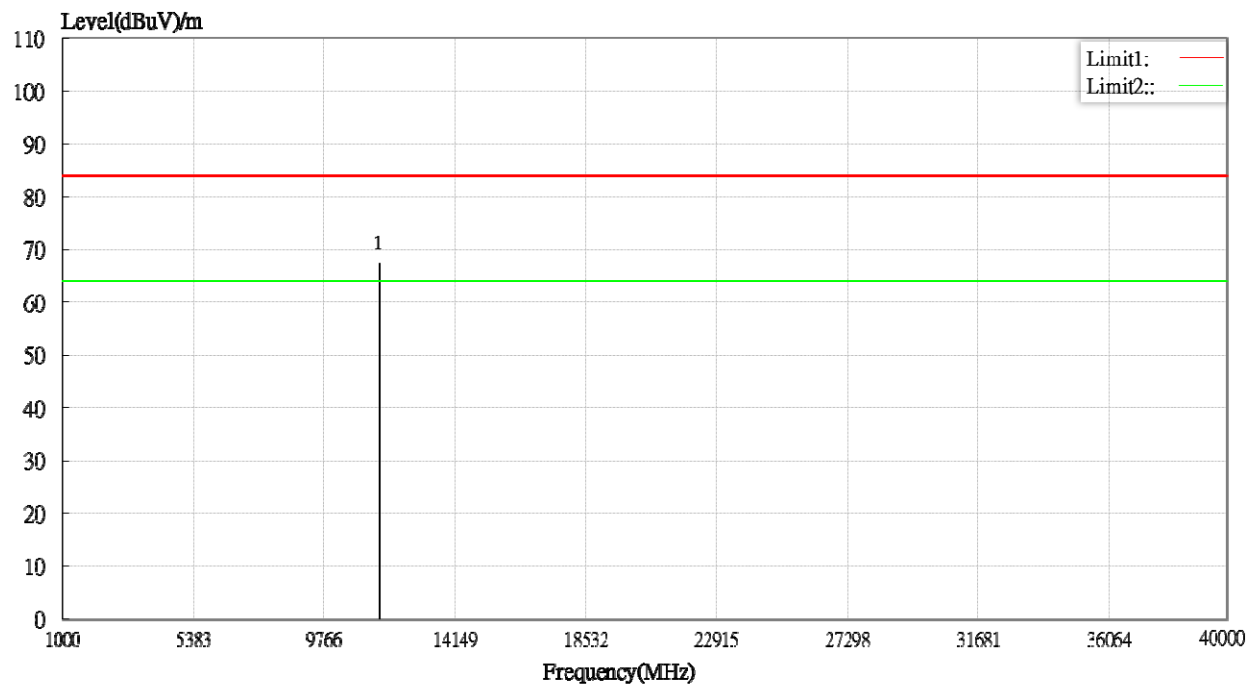


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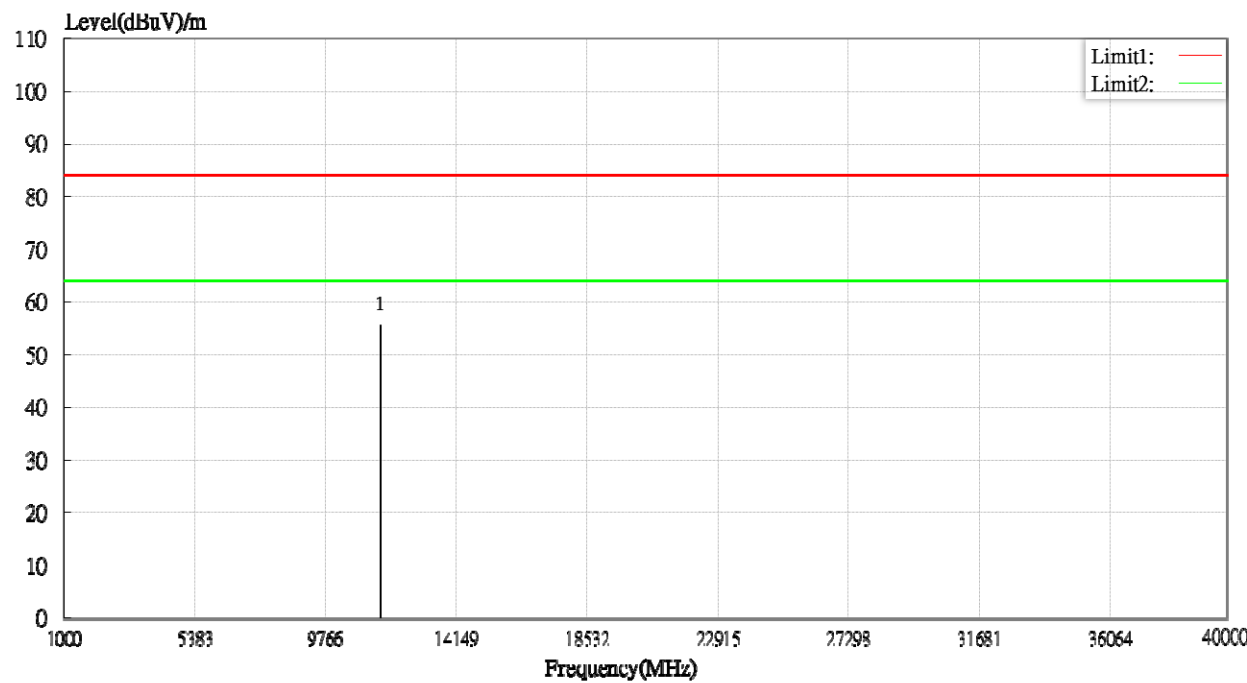


HE40 mode 5795 MHz Vertical REG

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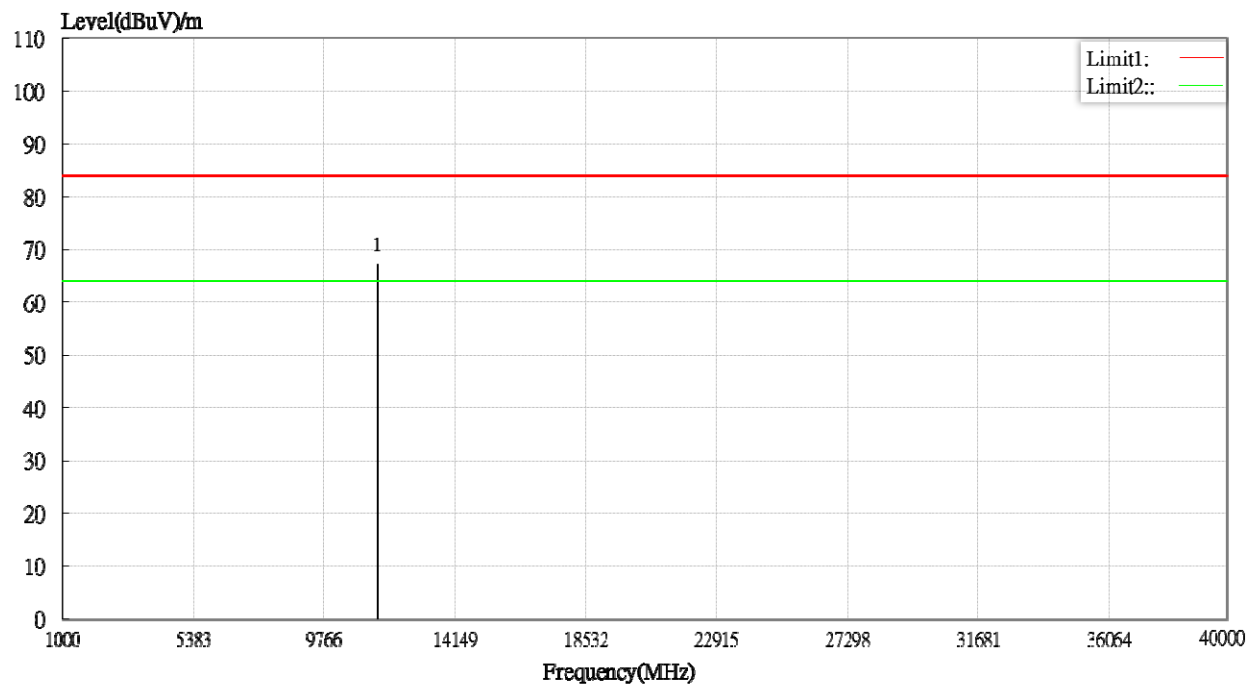


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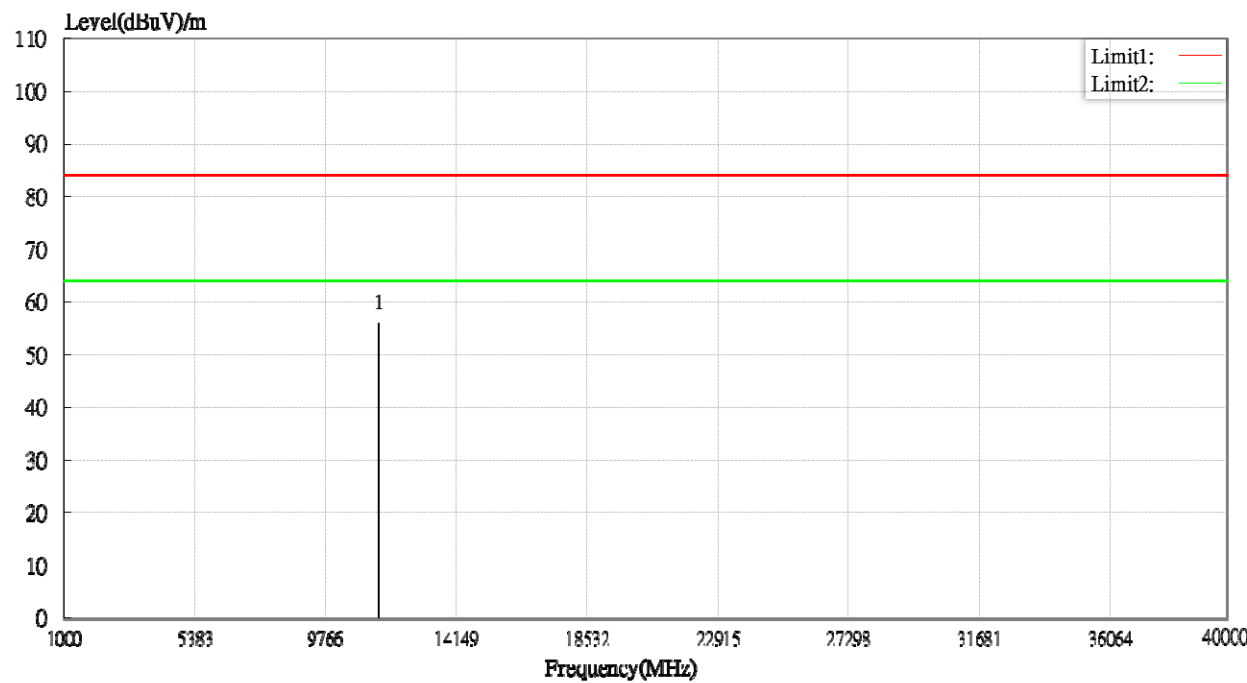


Non HT80 mode 5775 MHz Horizontal REG

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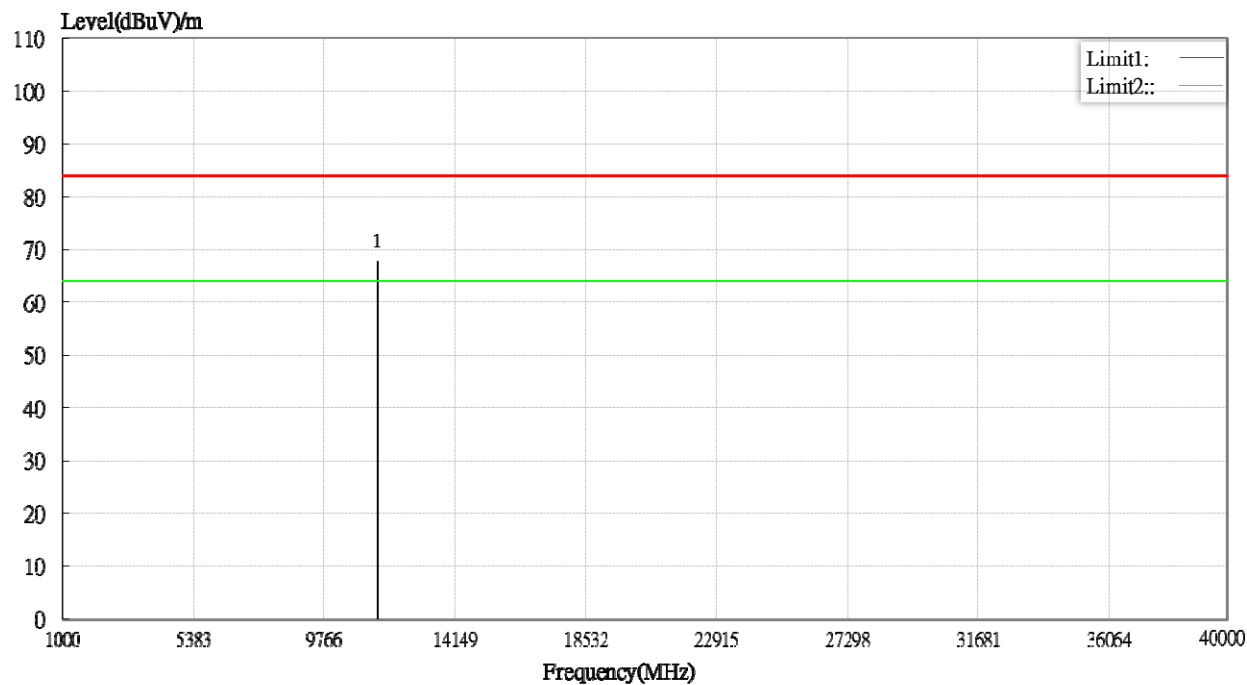


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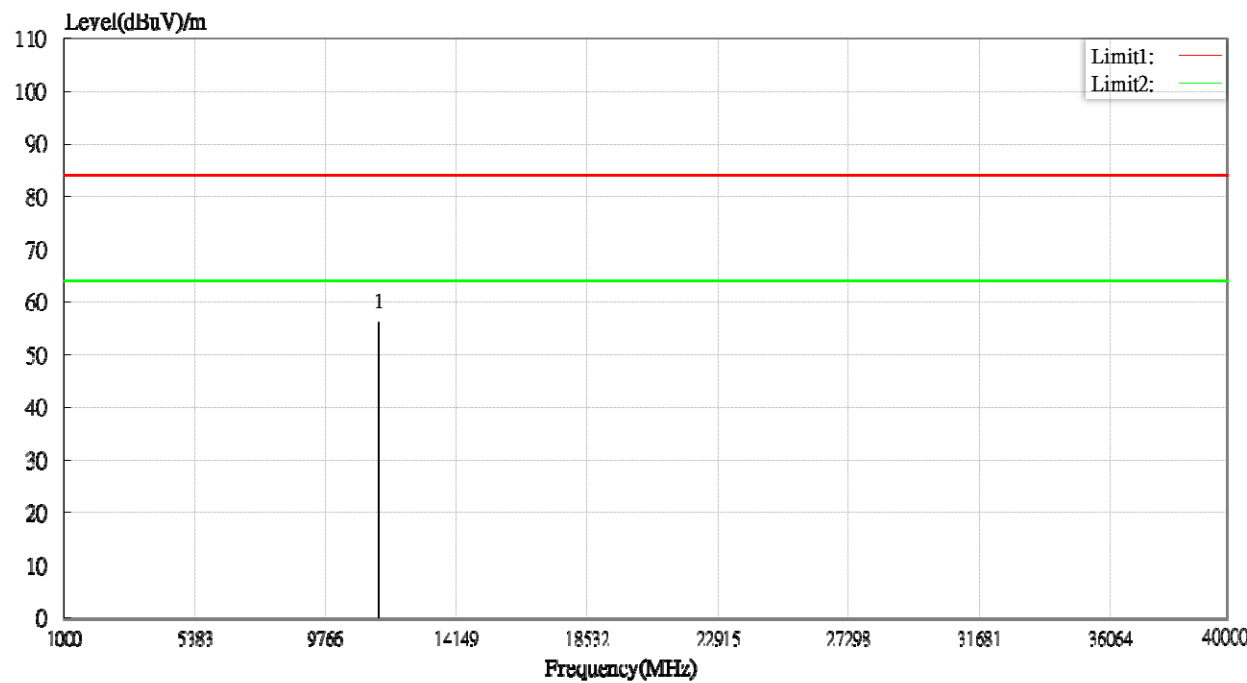


Non HT80 mode 5775 MHz Vertical REG

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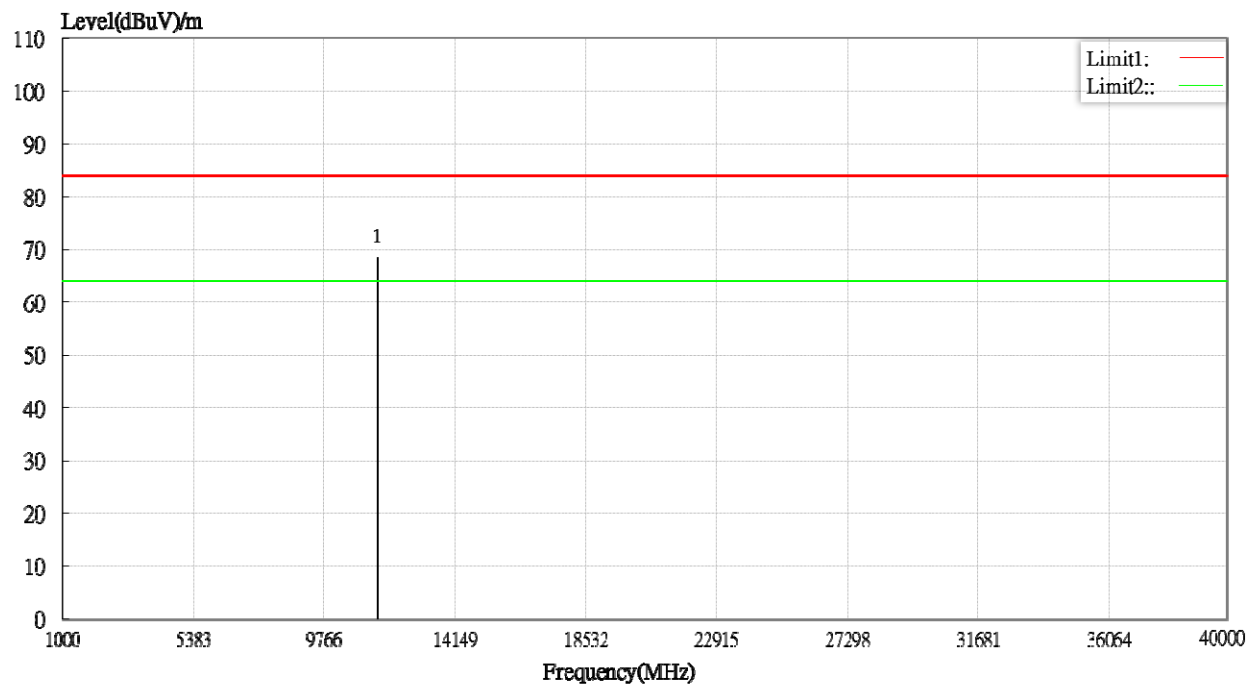


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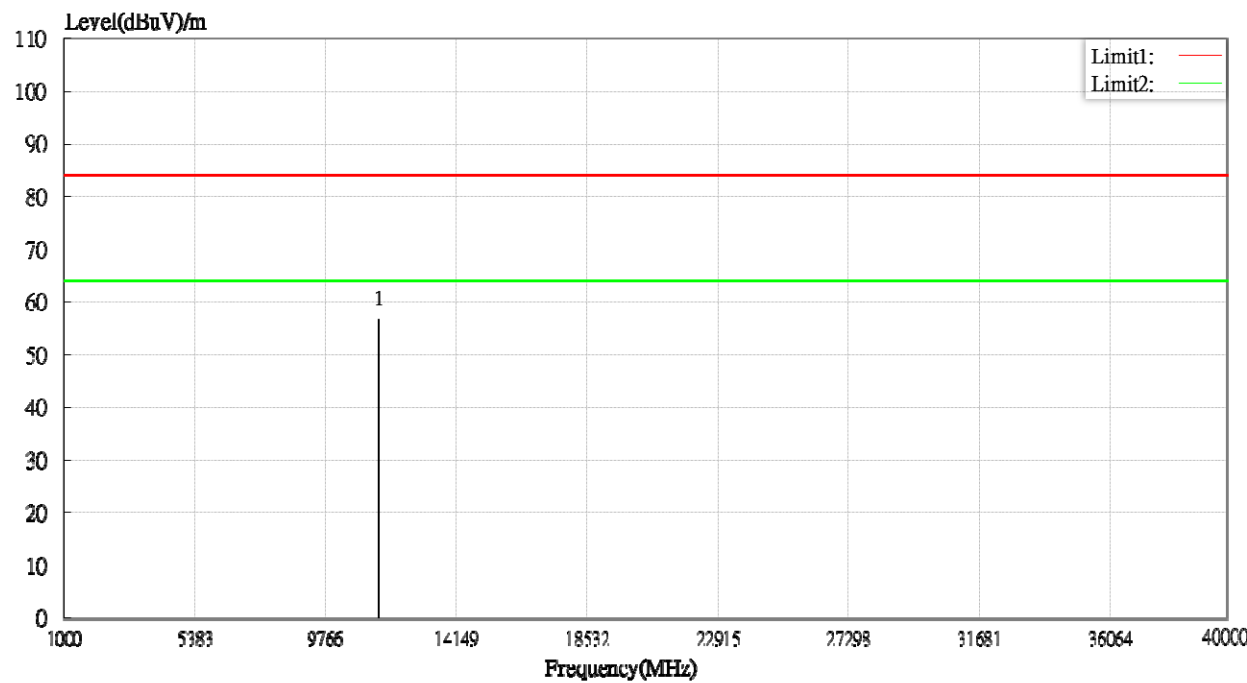


VHT80 mode 5775 MHz Horizontal REG

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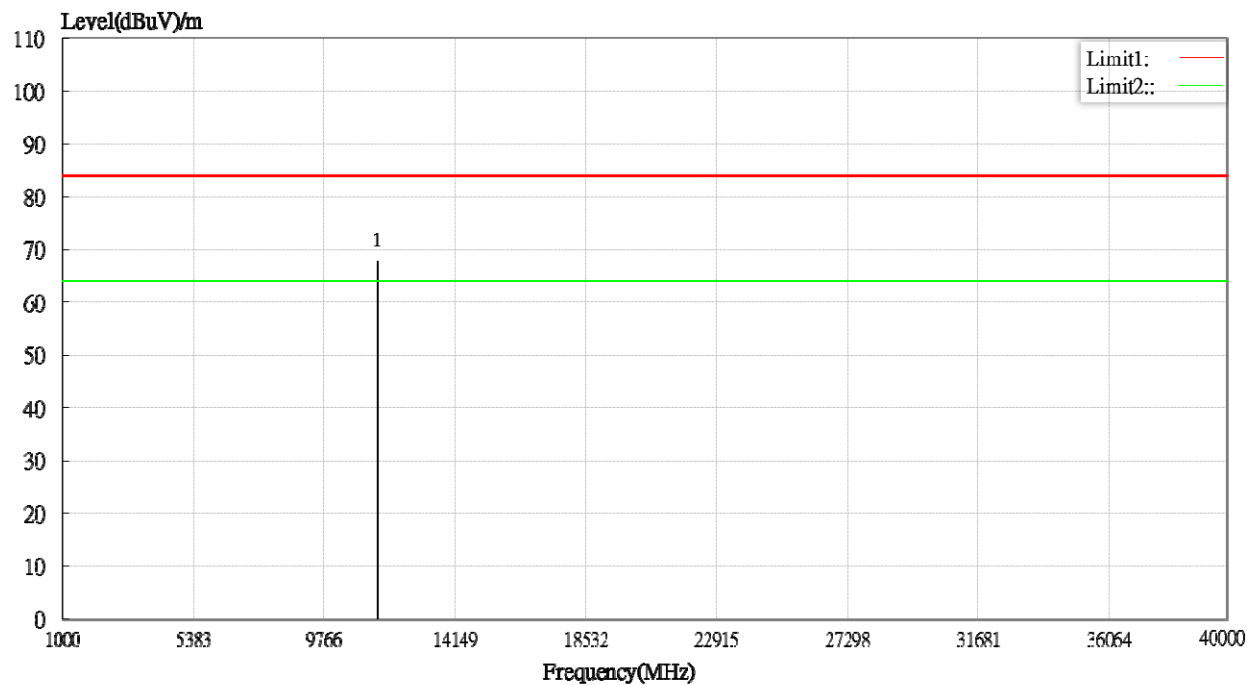


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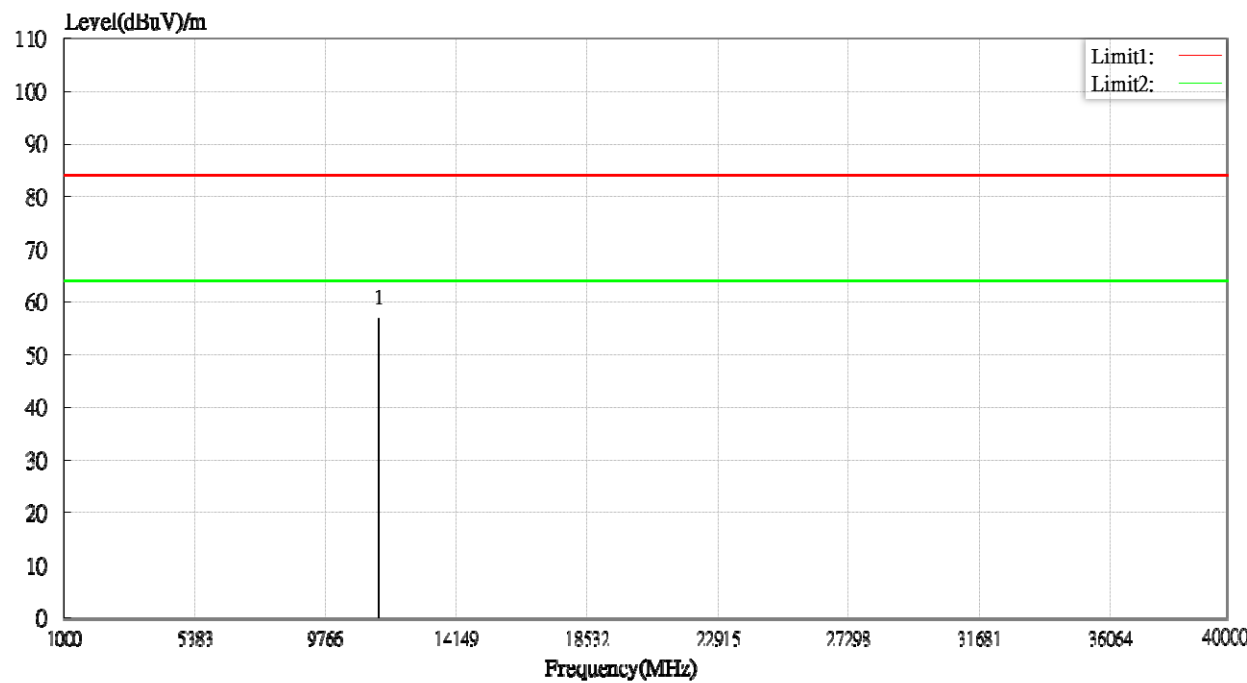


VHT80 mode 5775 MHz Vertical REG

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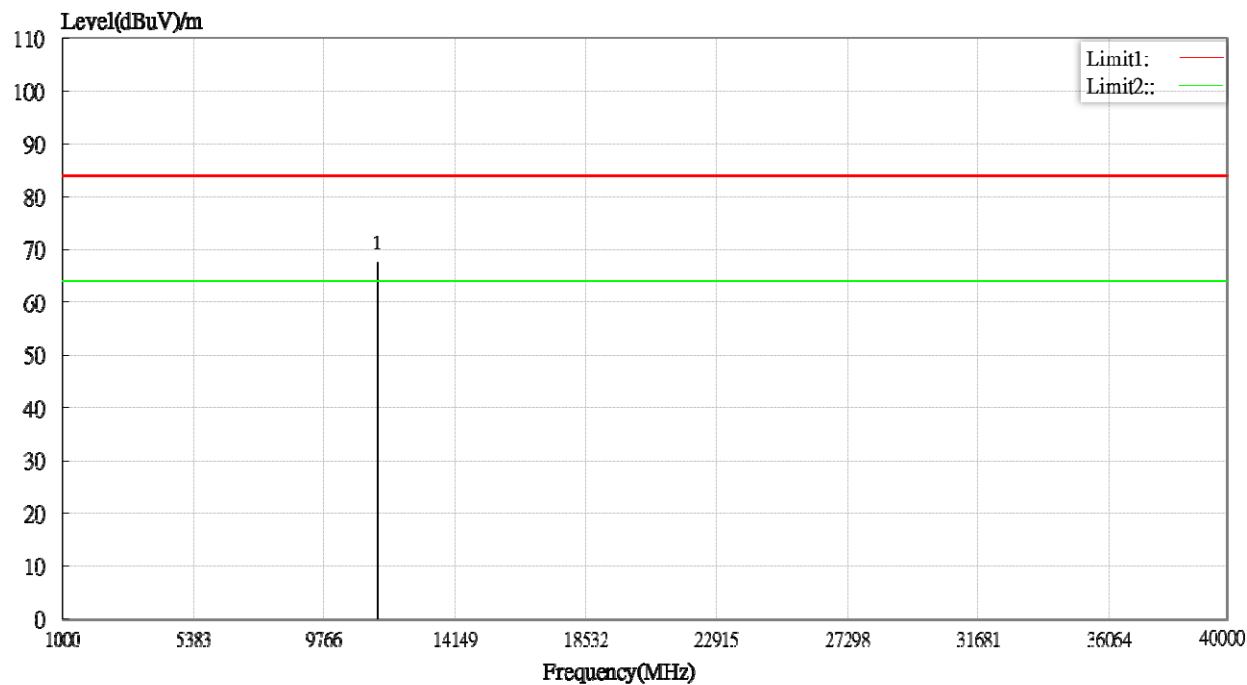


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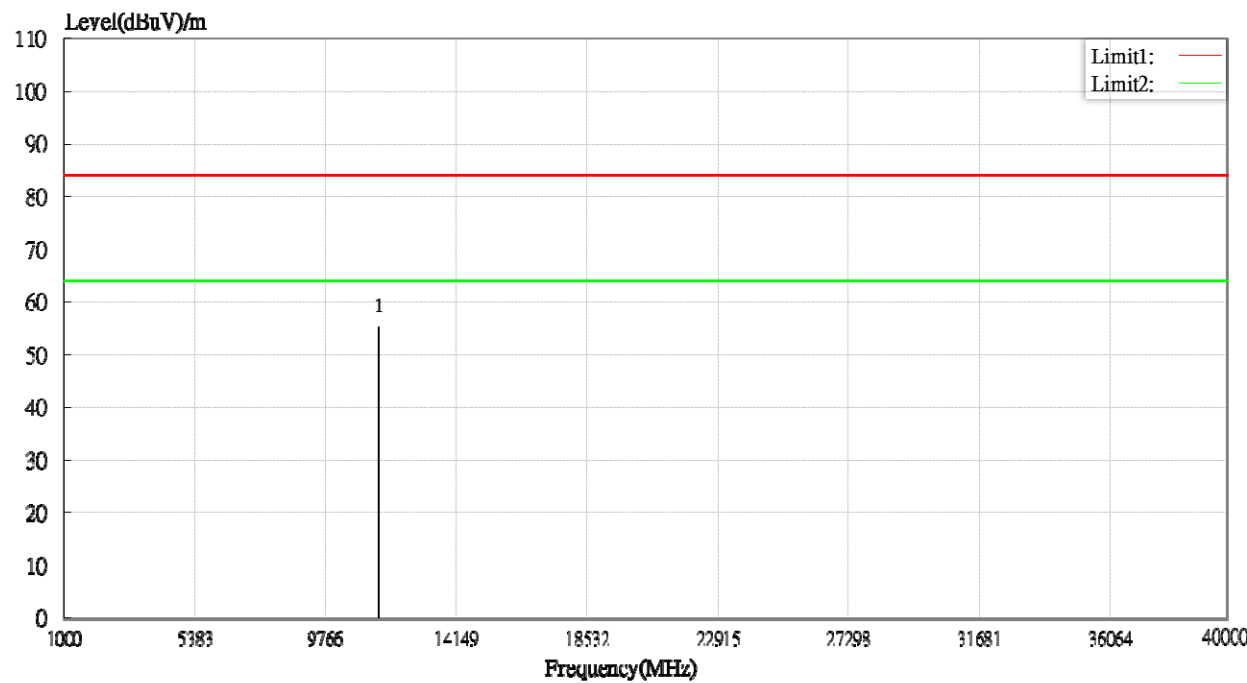


HE80 mode 5775 MHz Horizontal REG

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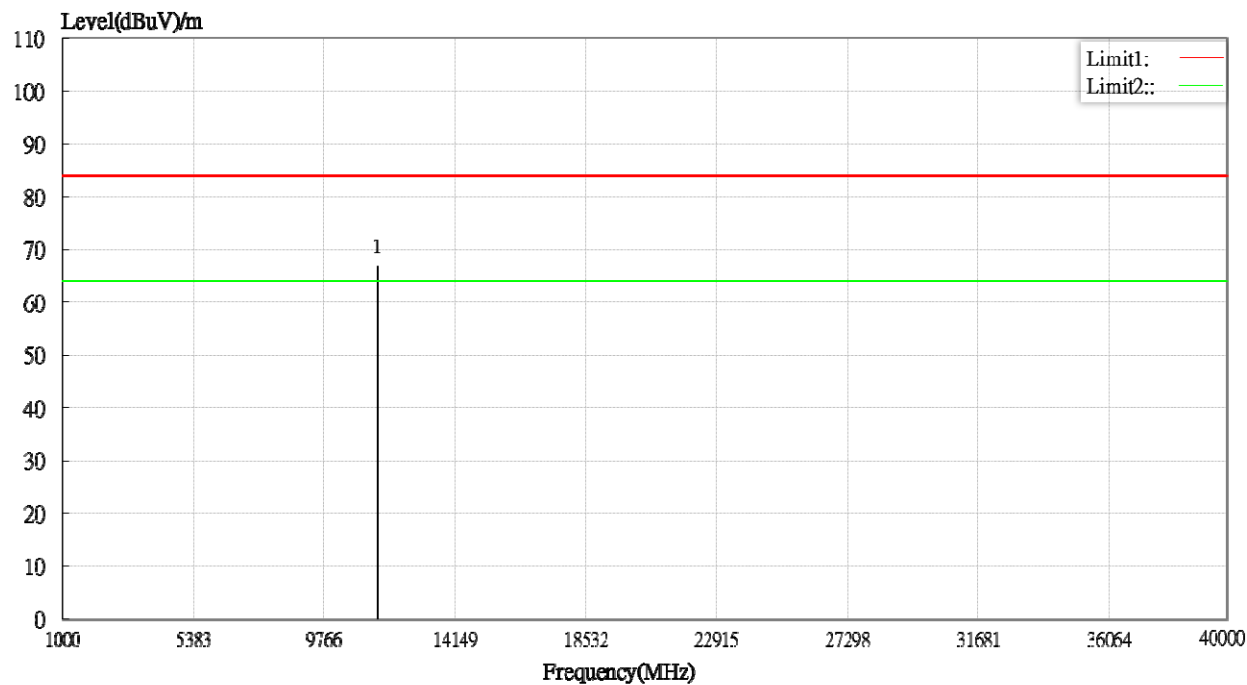


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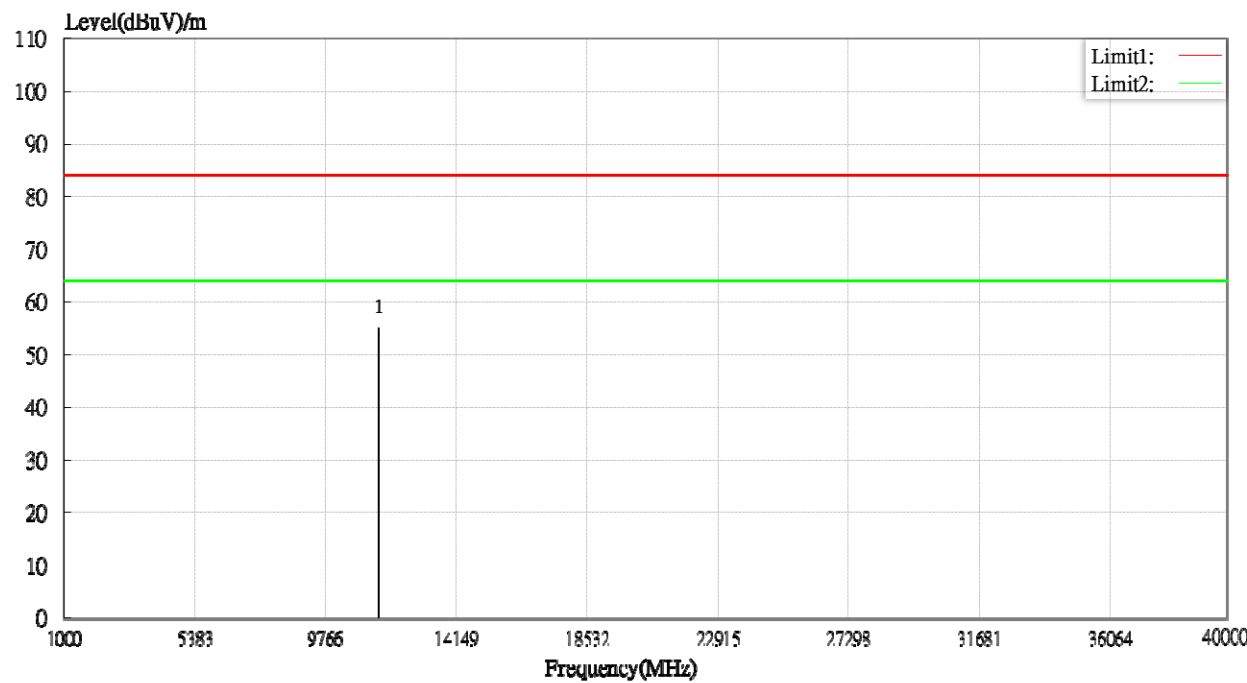


HE80 mode 5775 MHz Vertical REG

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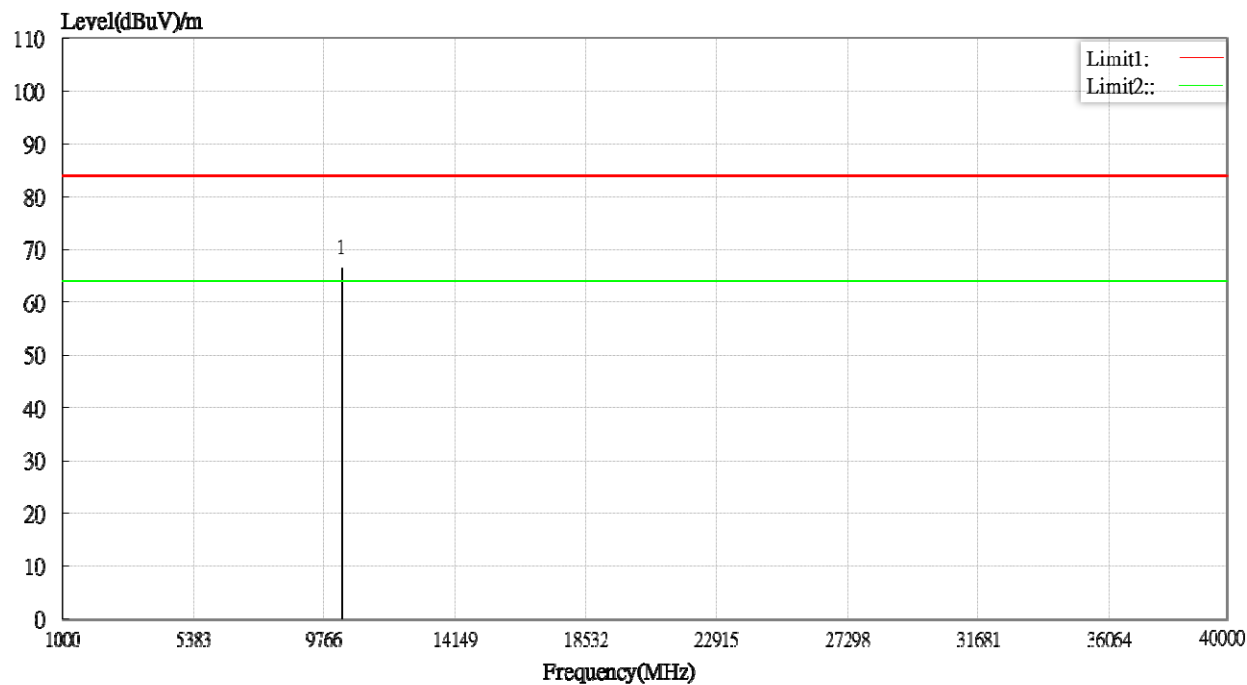


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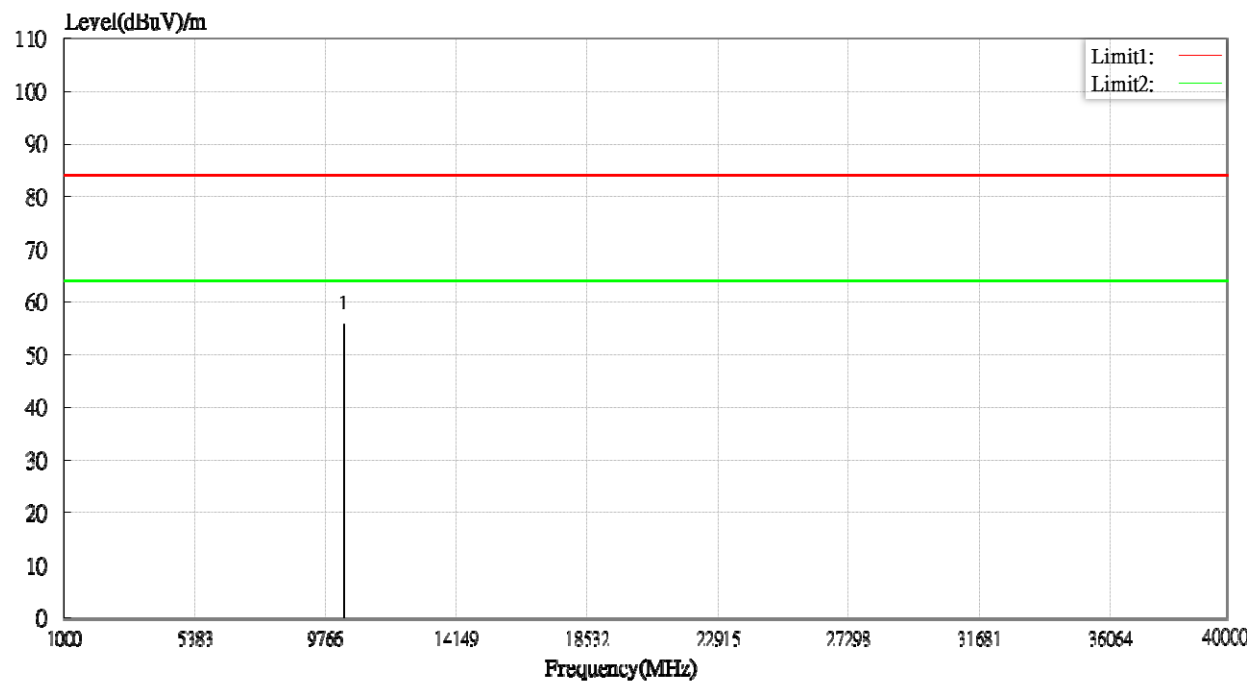


Non HT20 mode 5180 MHz Horizontal XOR

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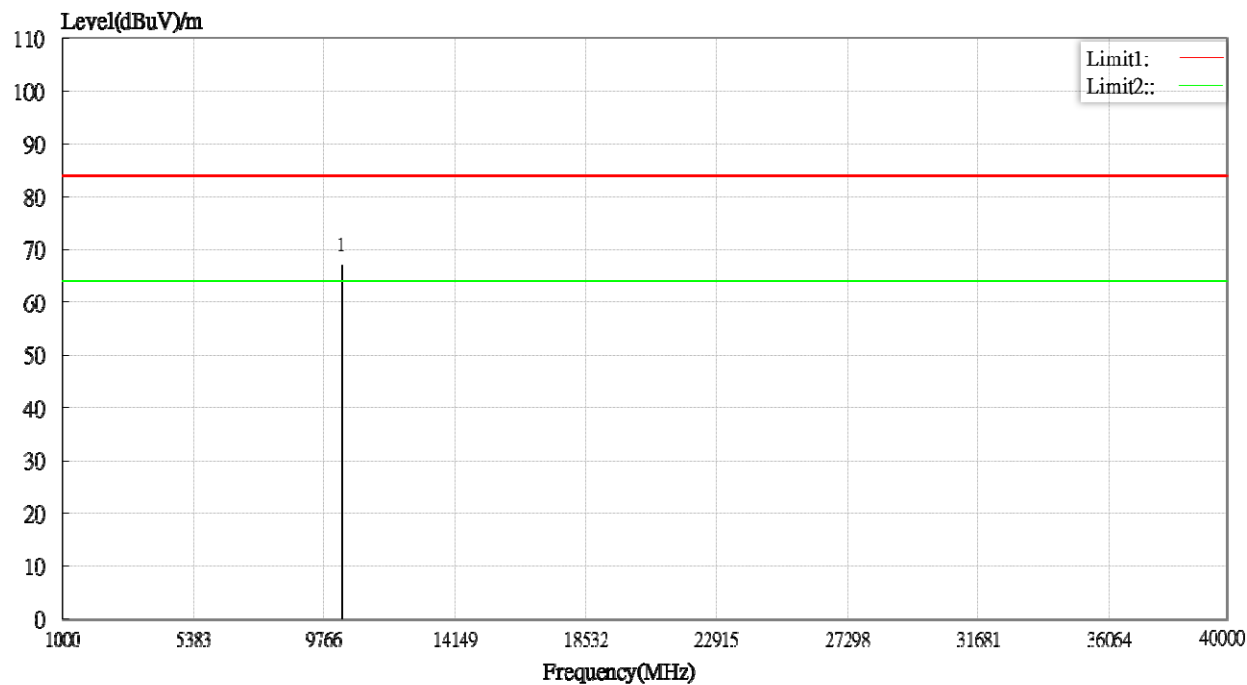


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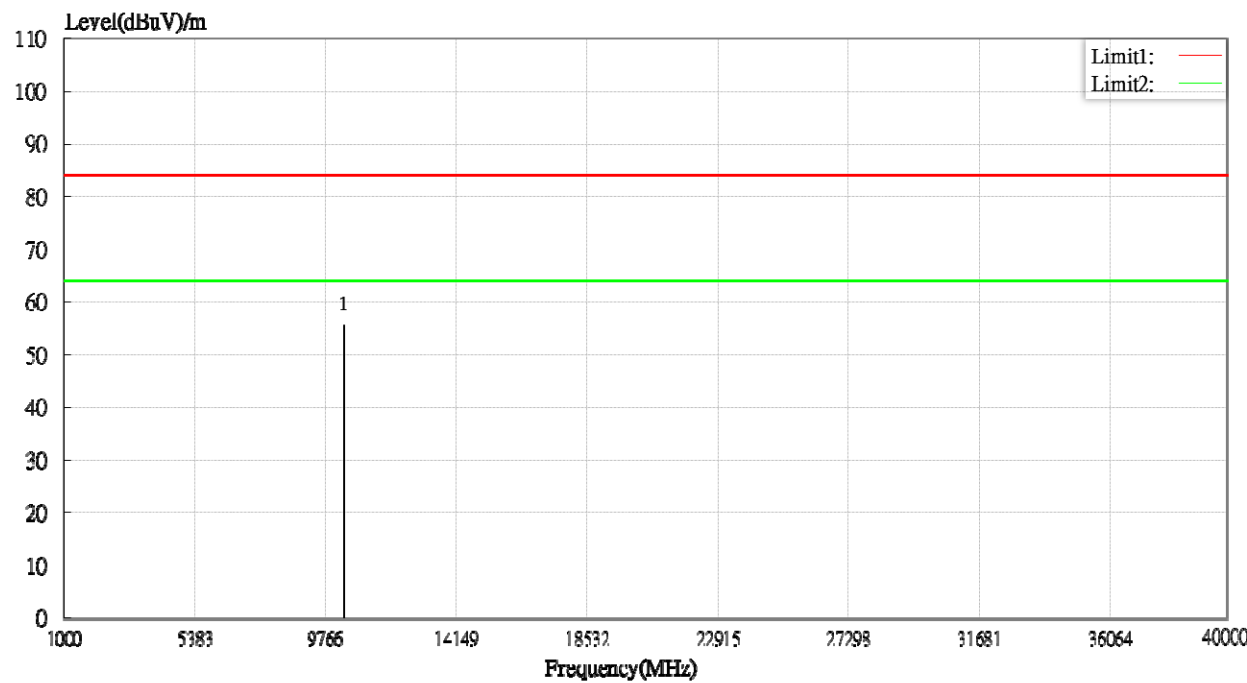


Non HT20 mode 5180 MHz Vertical XOR

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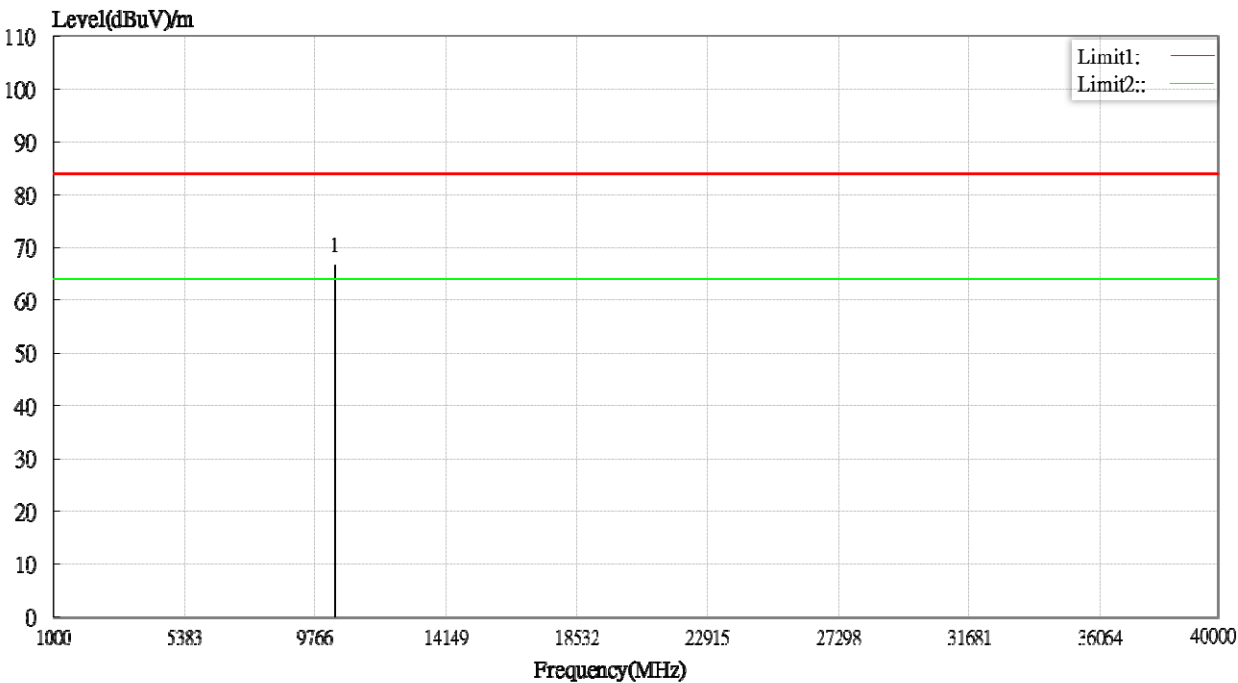


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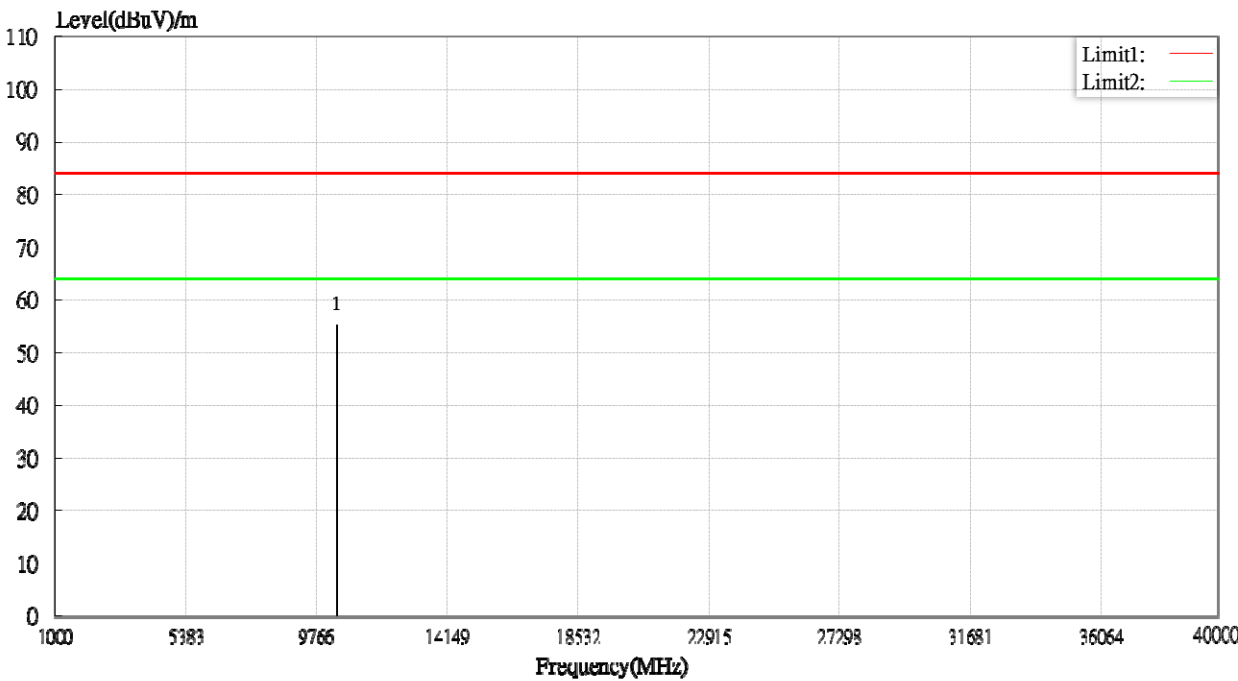


Non HT20 mode 5220 MHz Horizontal XOR

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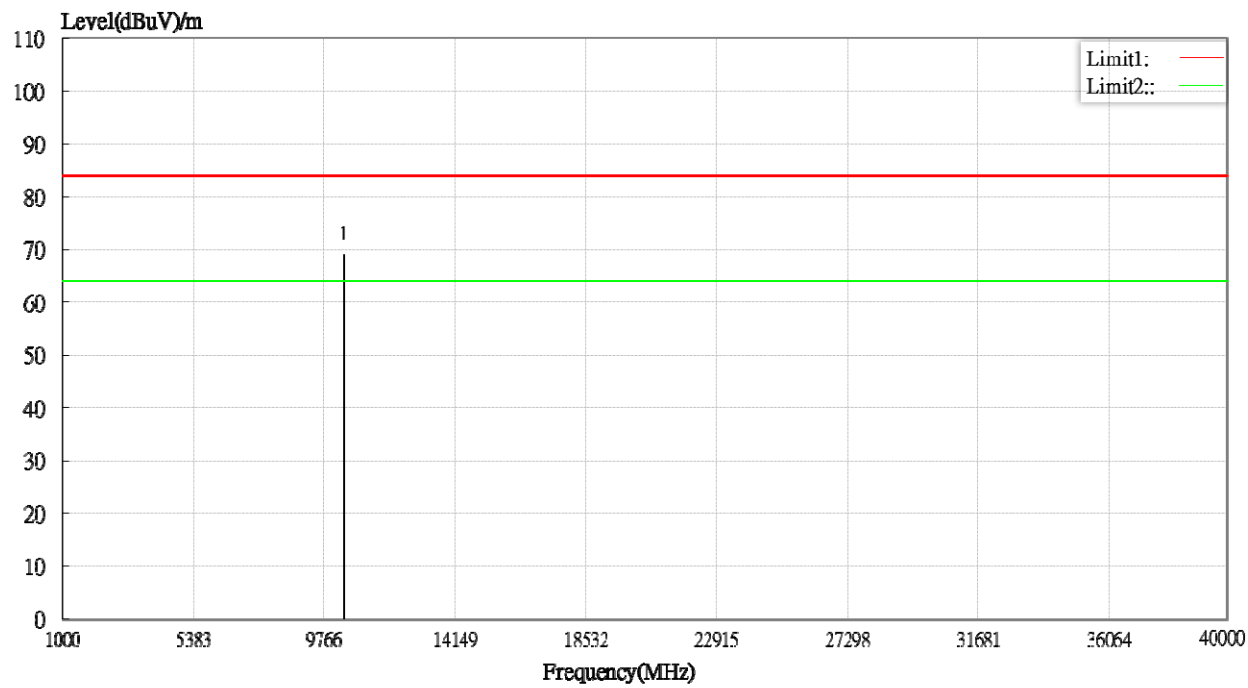


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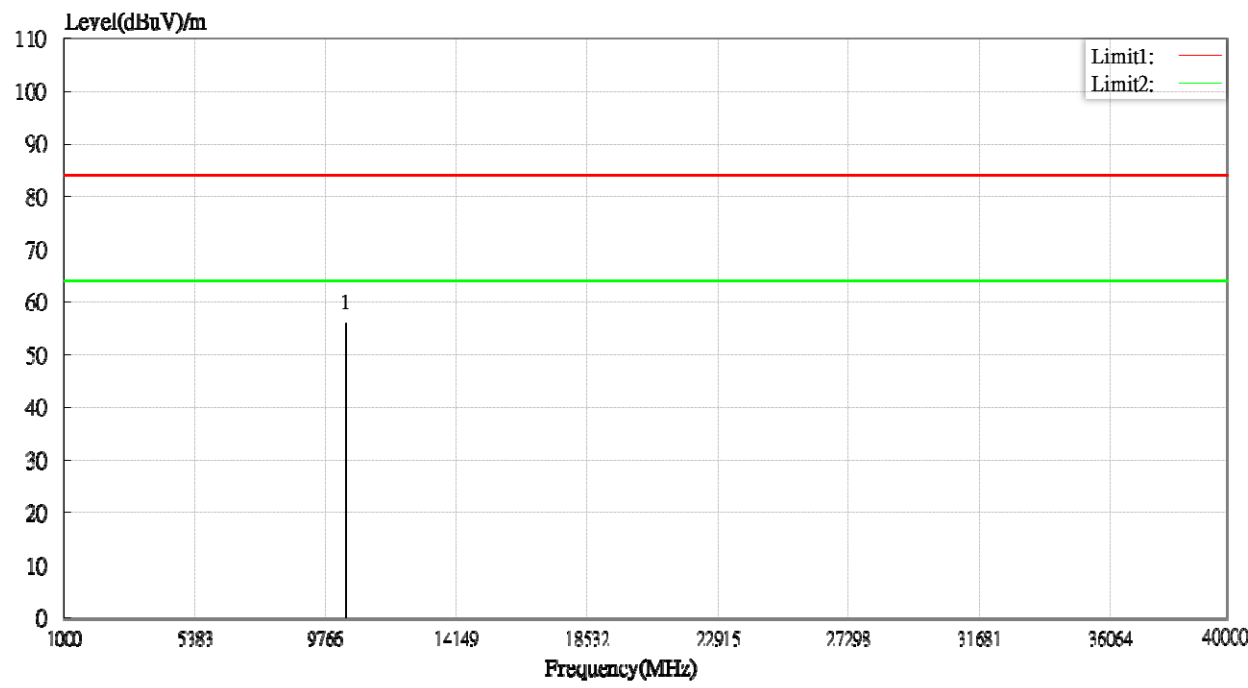


Non HT20 mode 5220 MHz Vertical XOR

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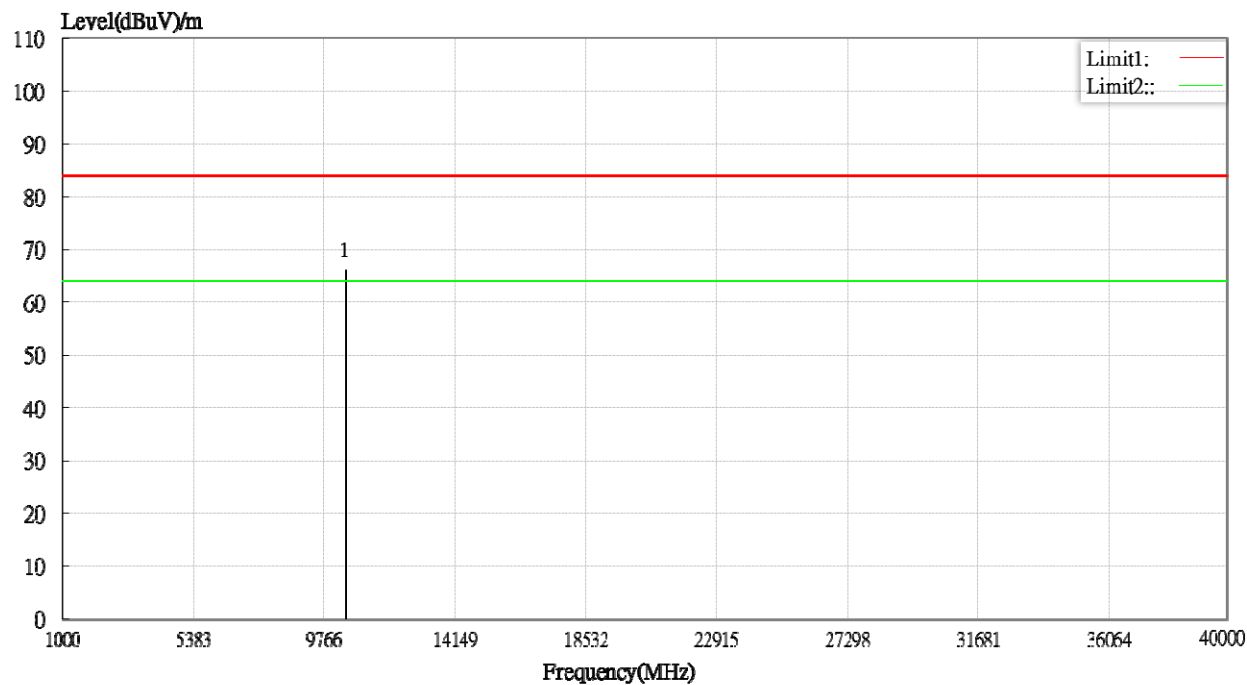


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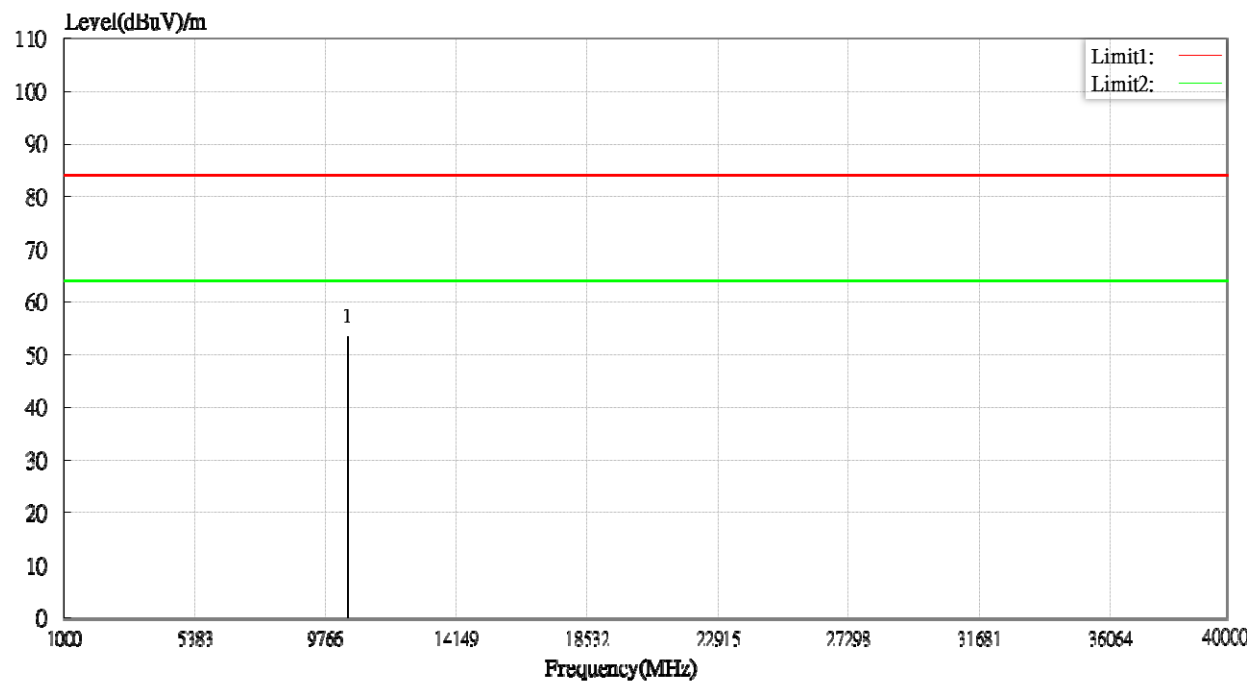


Non HT20 mode 5240 MHz Horizontal XOR

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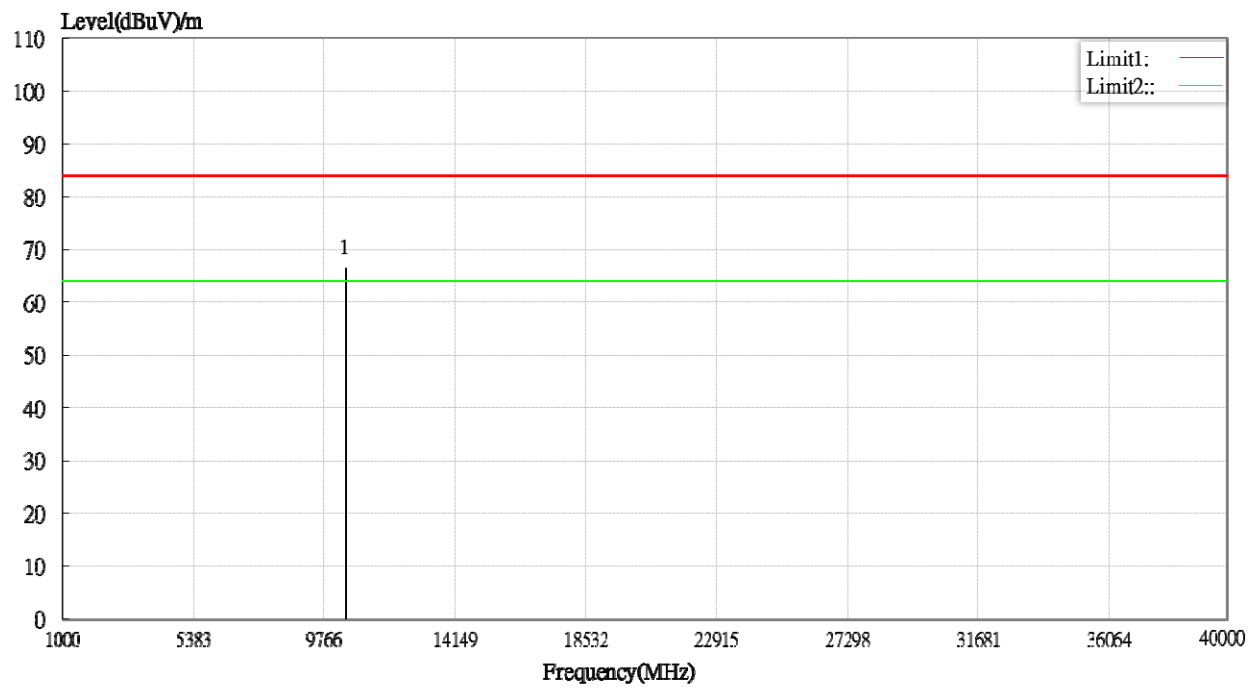


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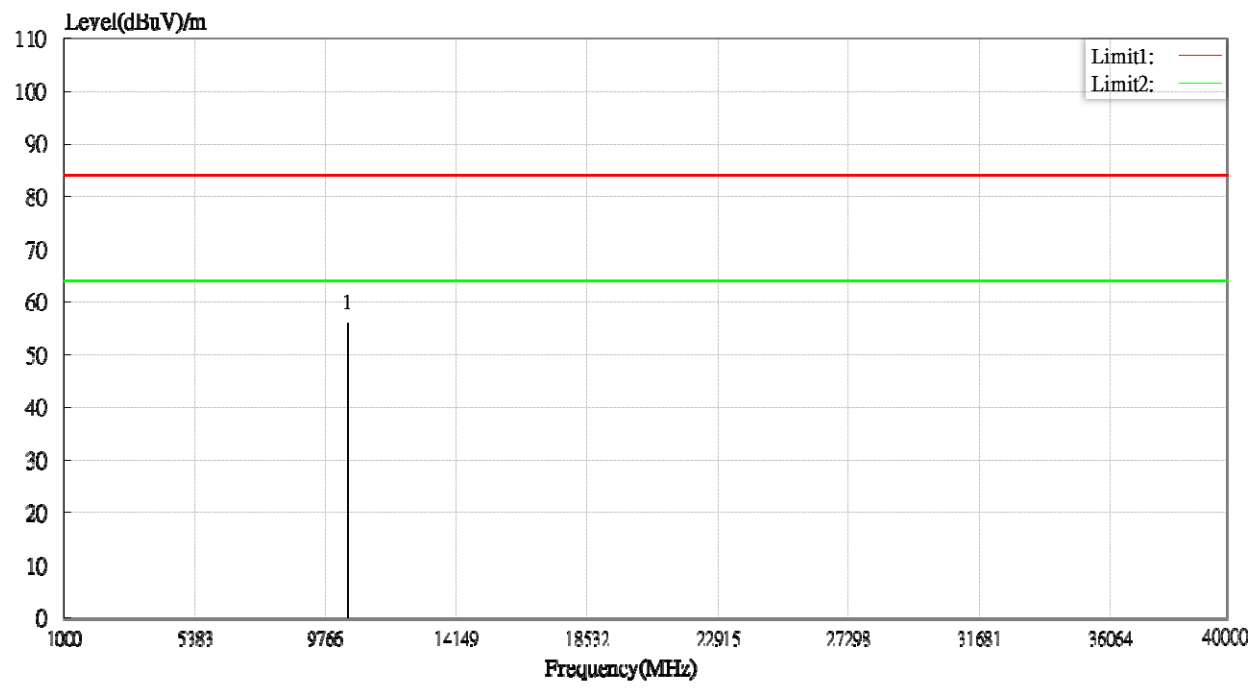


Non HT20 mode 5240 MHz Vertical XOR

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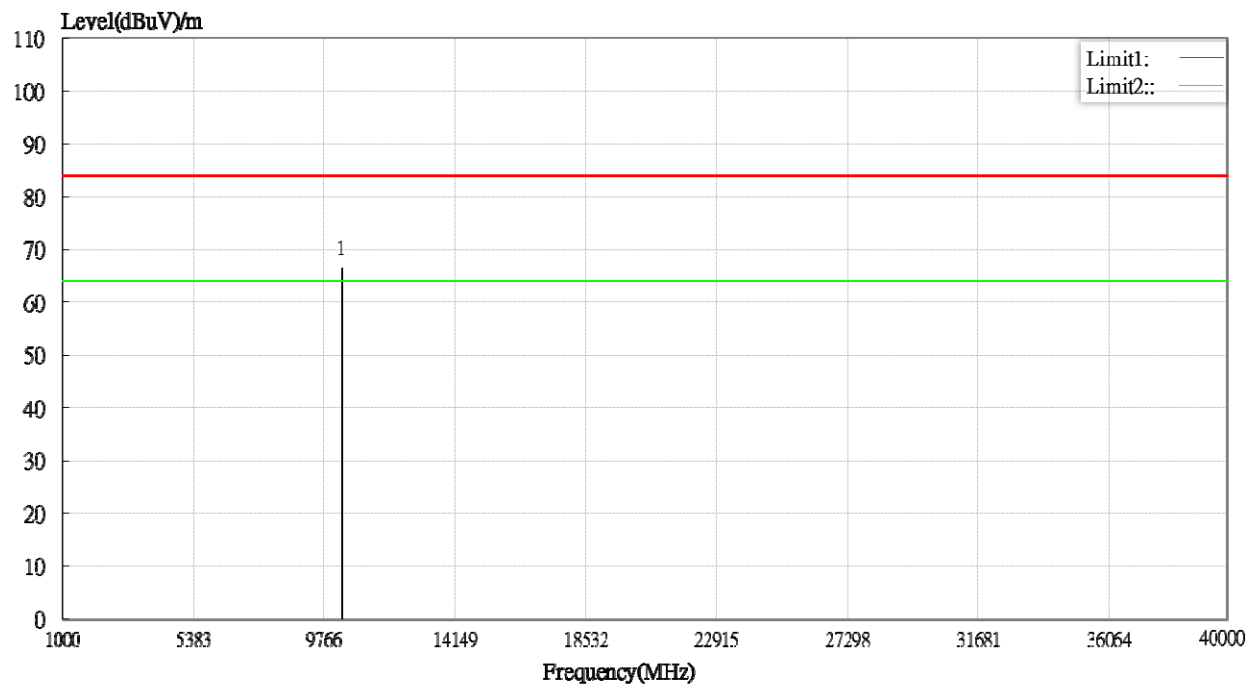


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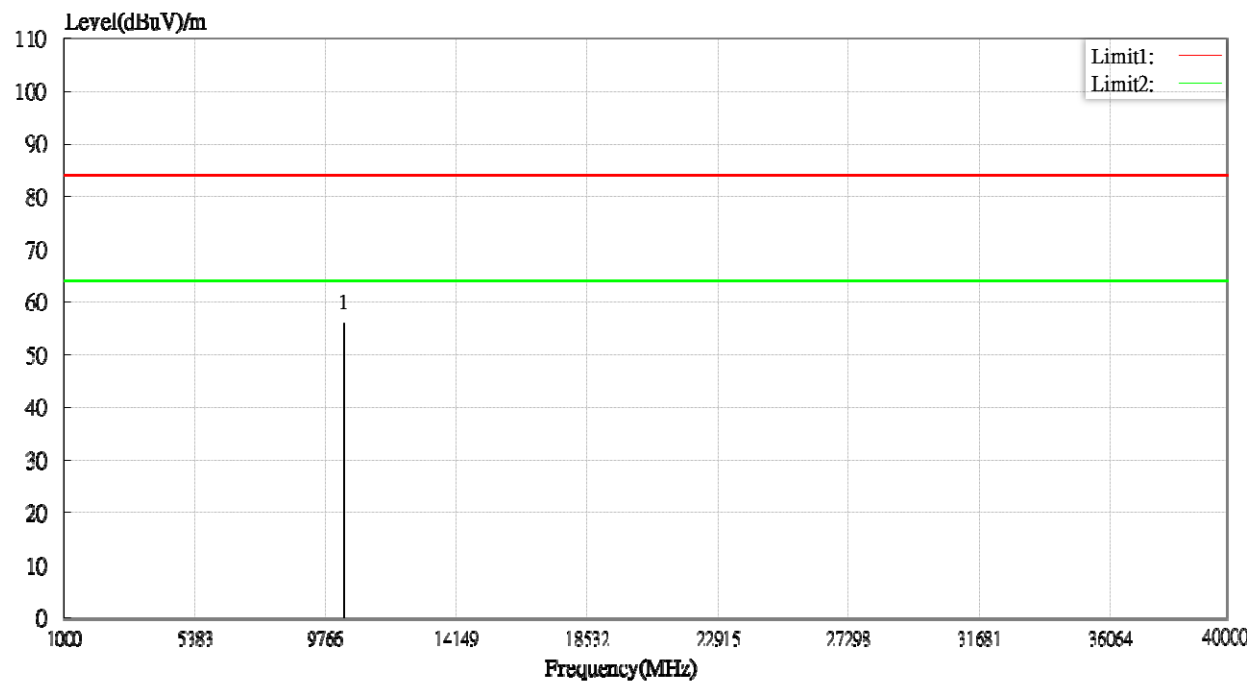


HT/VHT20 mode 5180 MHz Horizontal XOR

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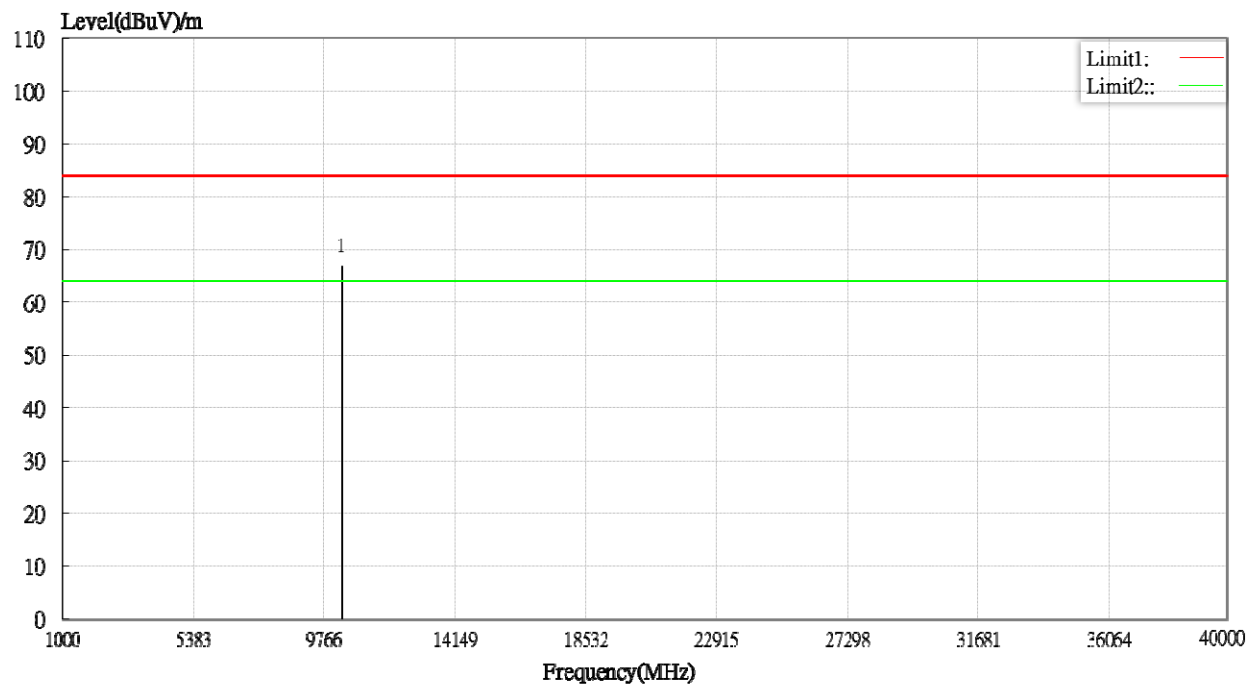


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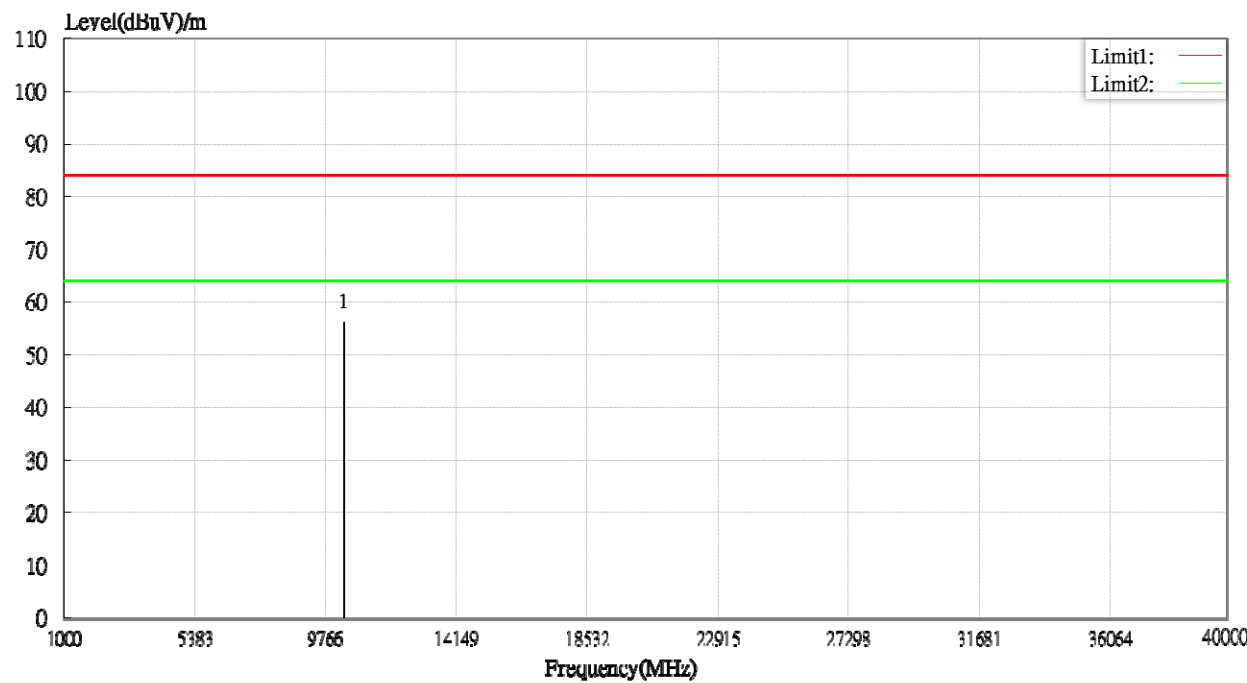


HT/VHT20 mode 5180 MHz Vertical XOR

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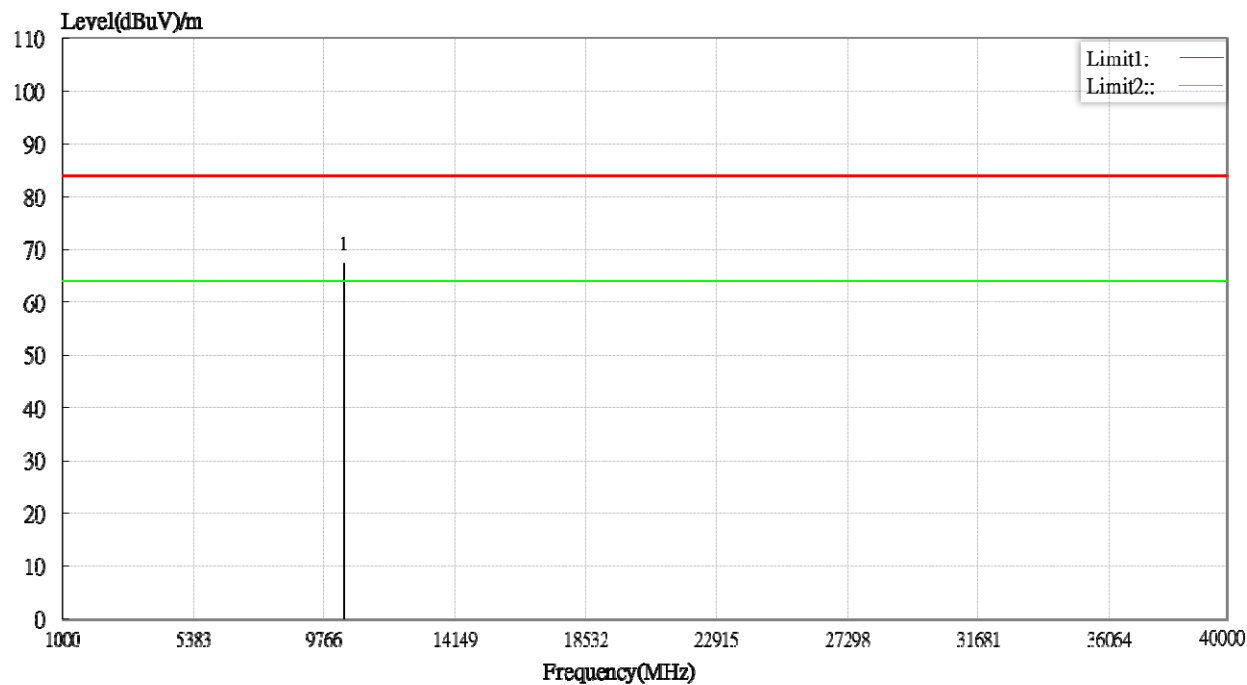


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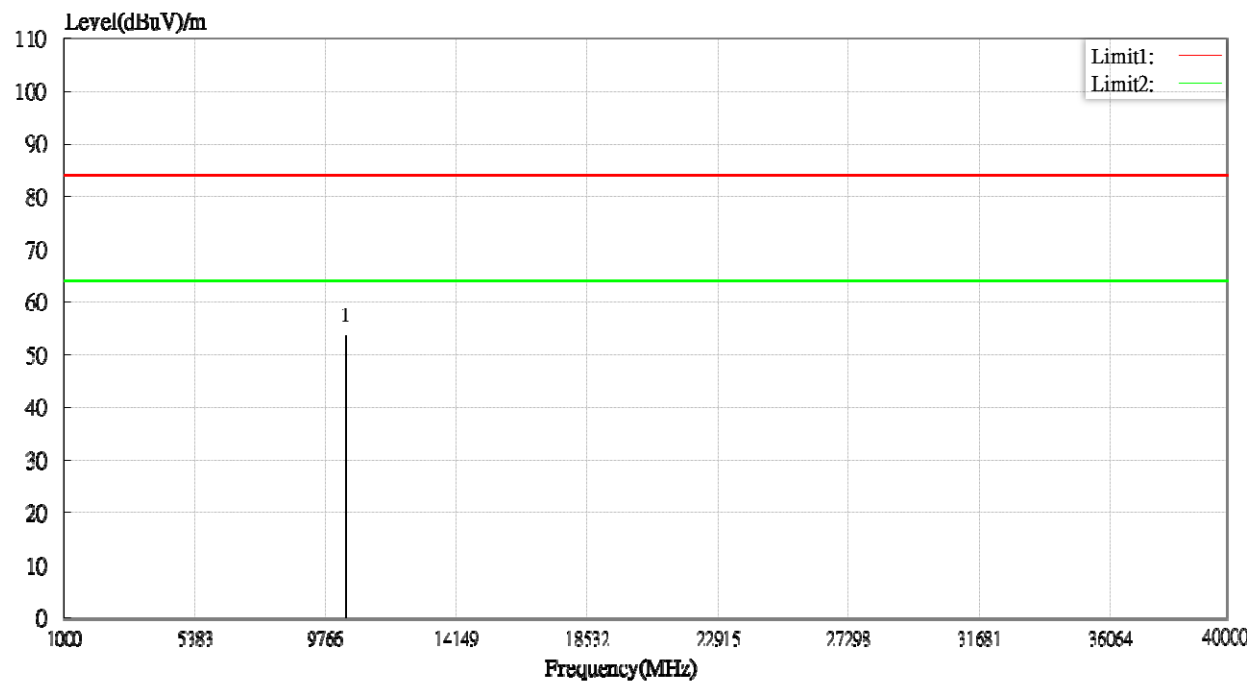


HT/VHT20 mode 5220 MHz Horizontal XOR

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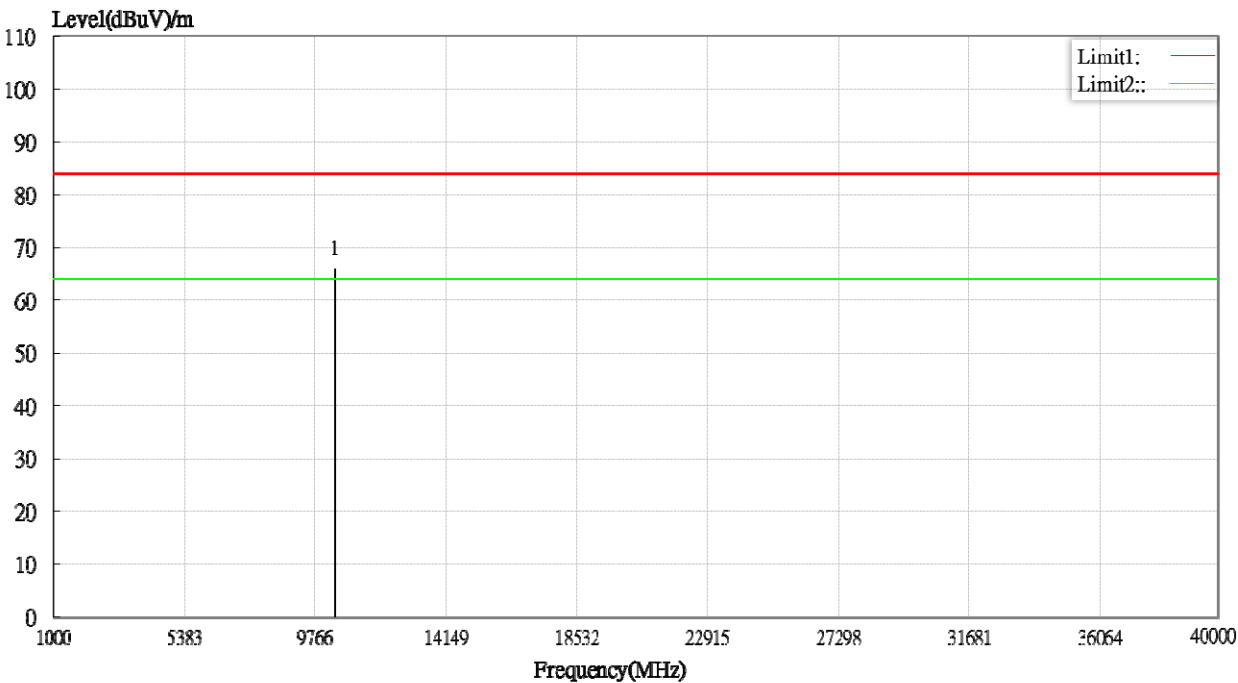


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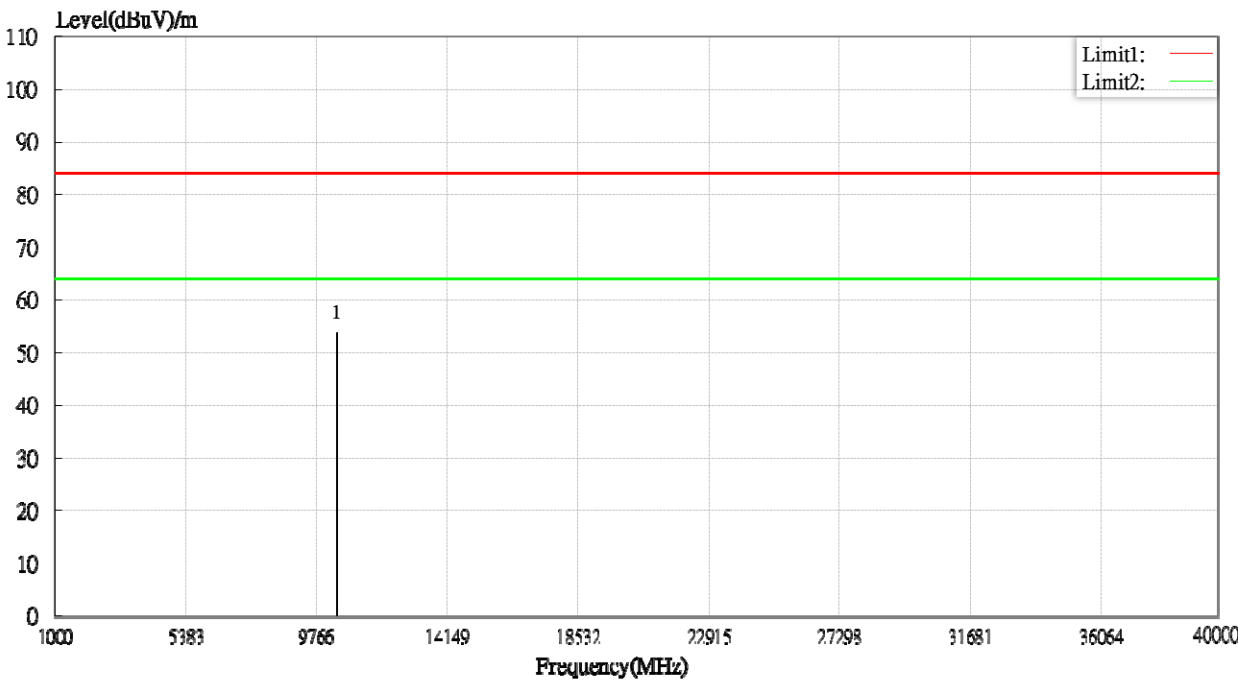


HT/VHT20 mode 5220 MHz Vertical XOR

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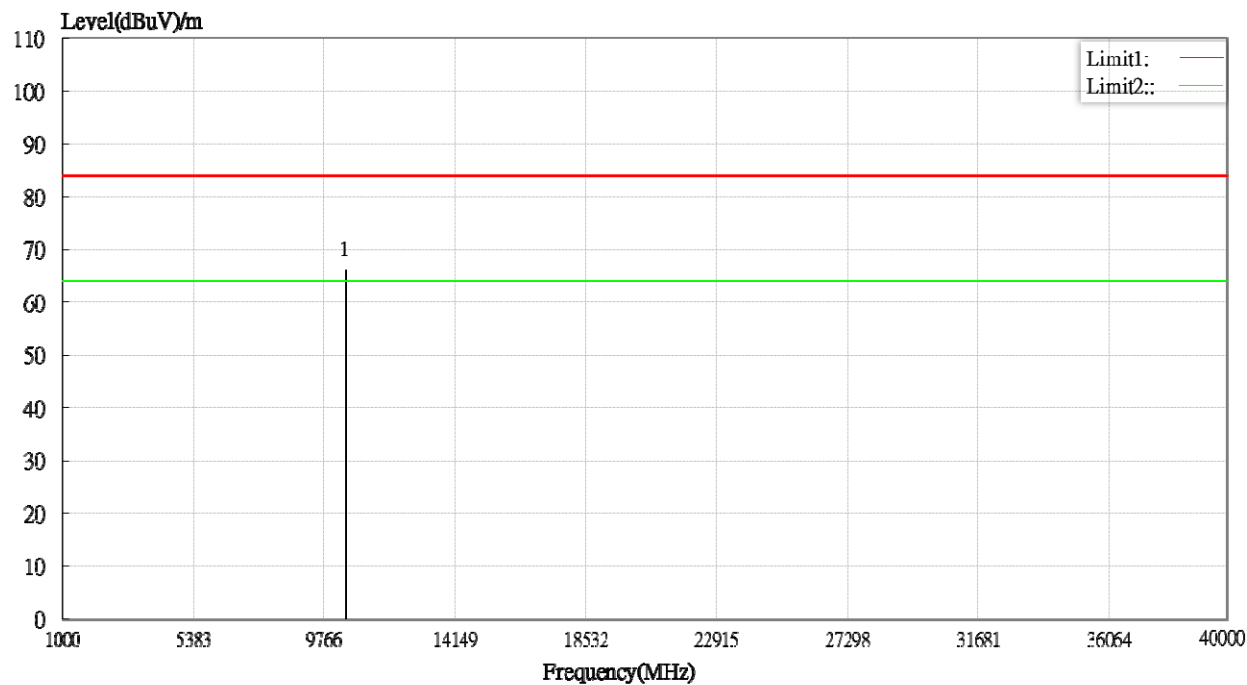


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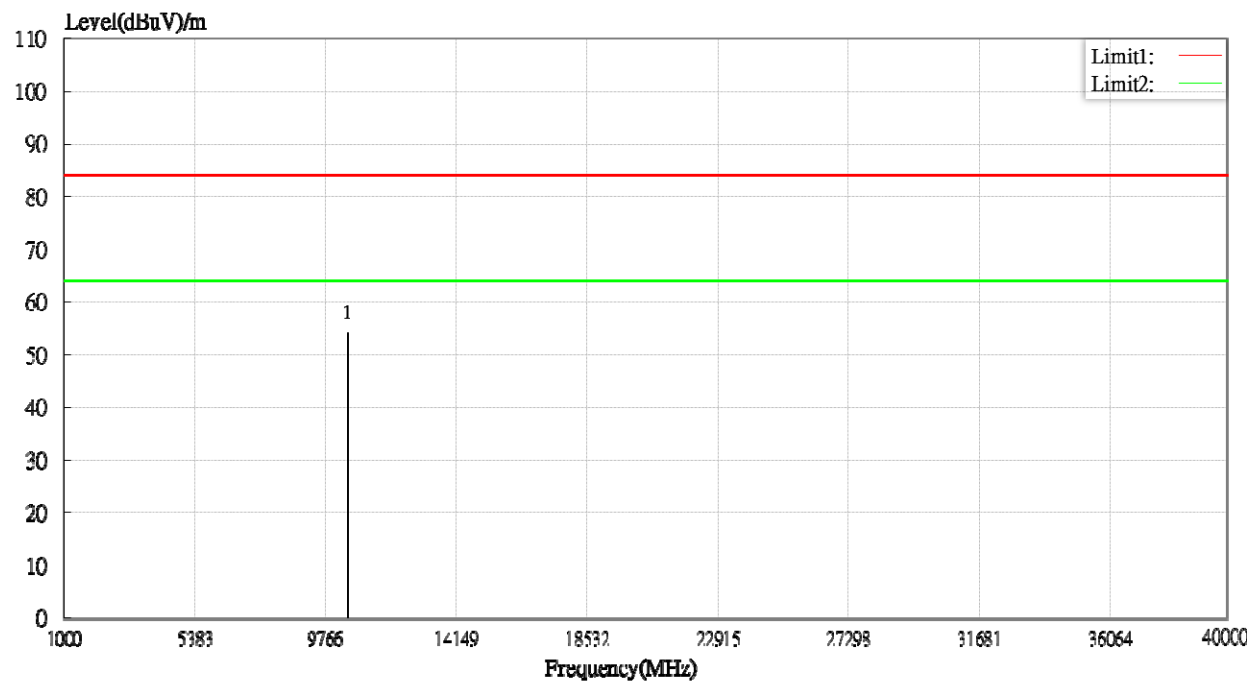


HT/VHT20 mode 5240 MHz Horizontal XOR

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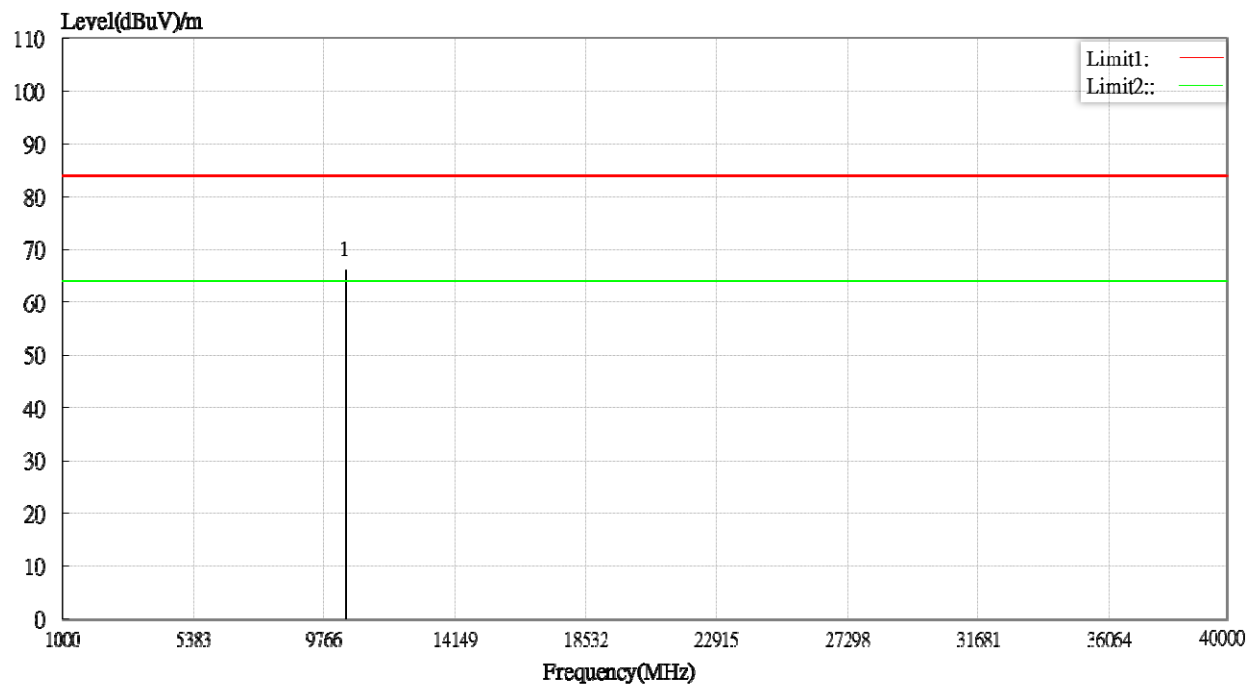


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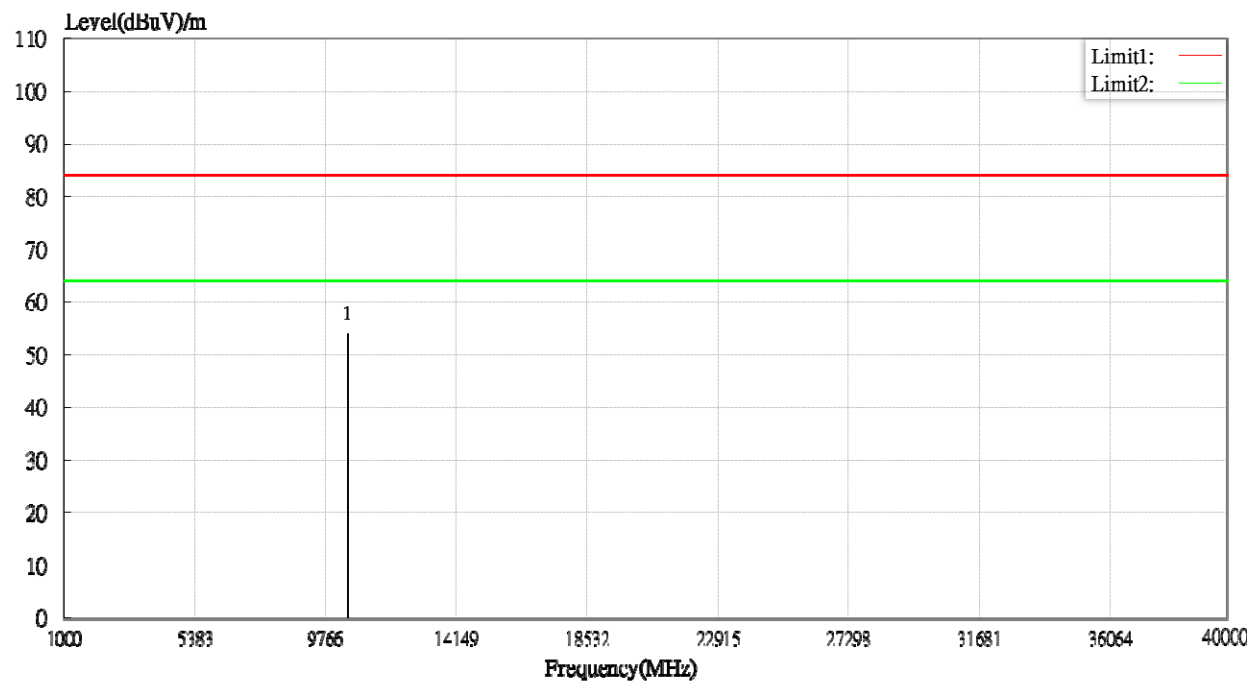


HT/VHT20 mode 5240 MHz Vertical XOR

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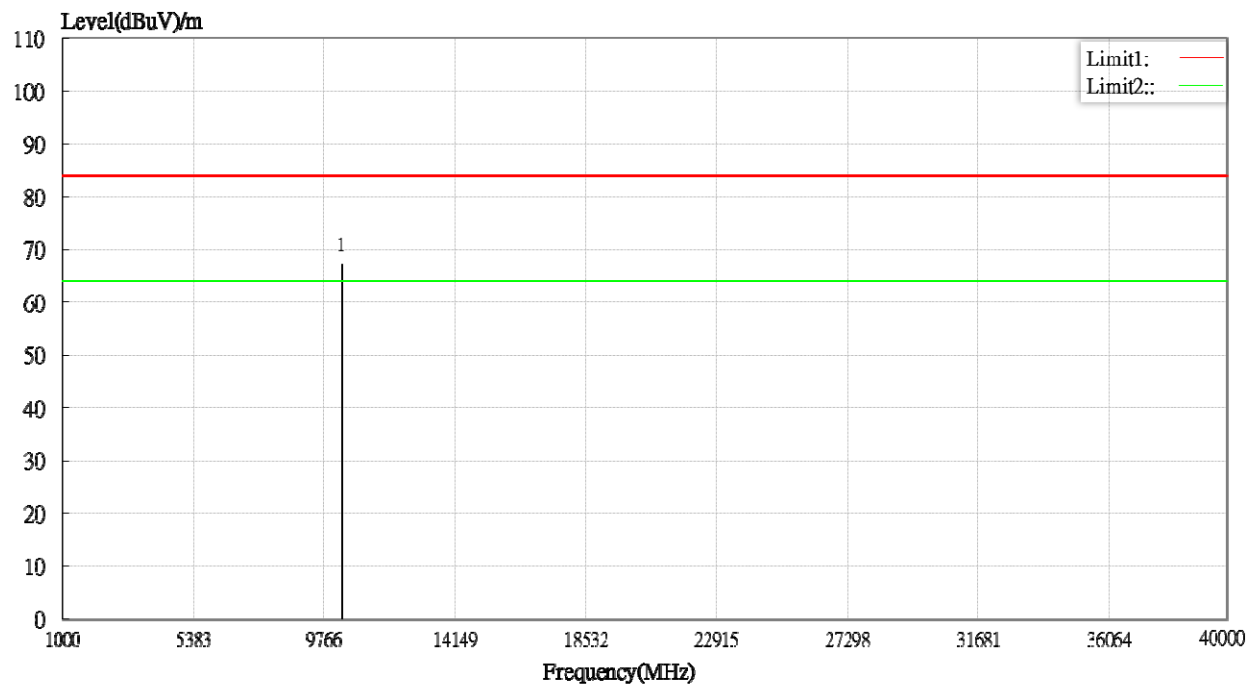


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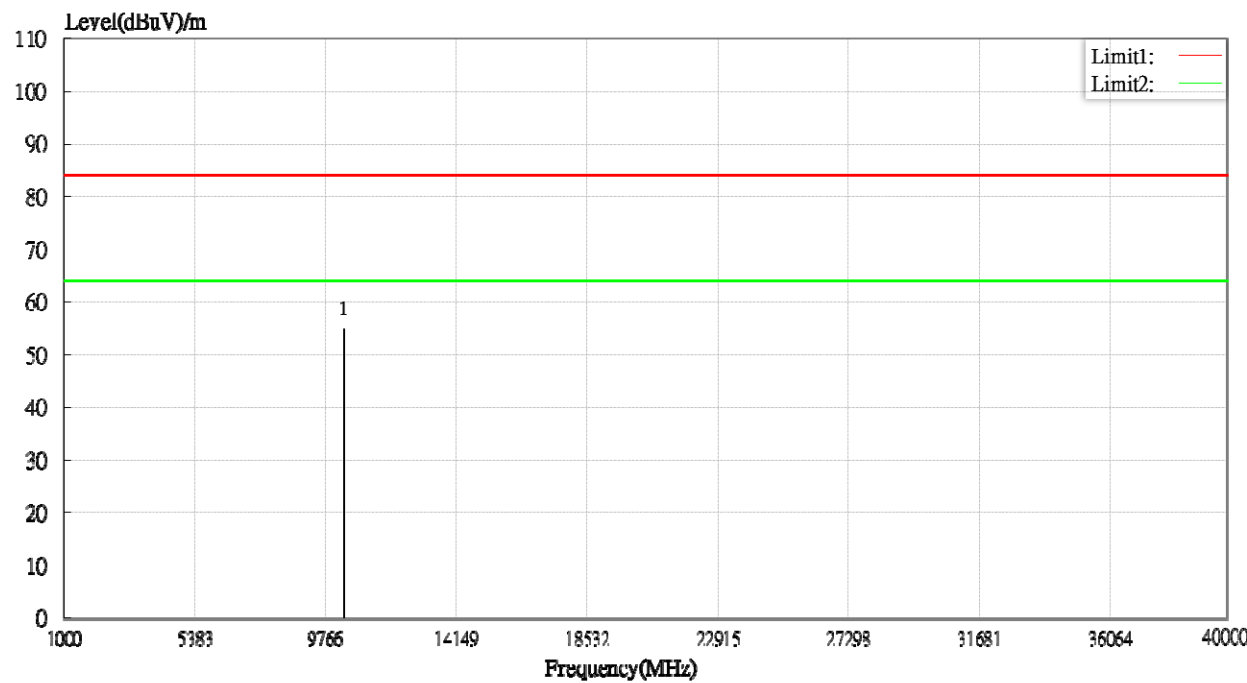


HE20 mode 5180 MHz Horizontal XOR

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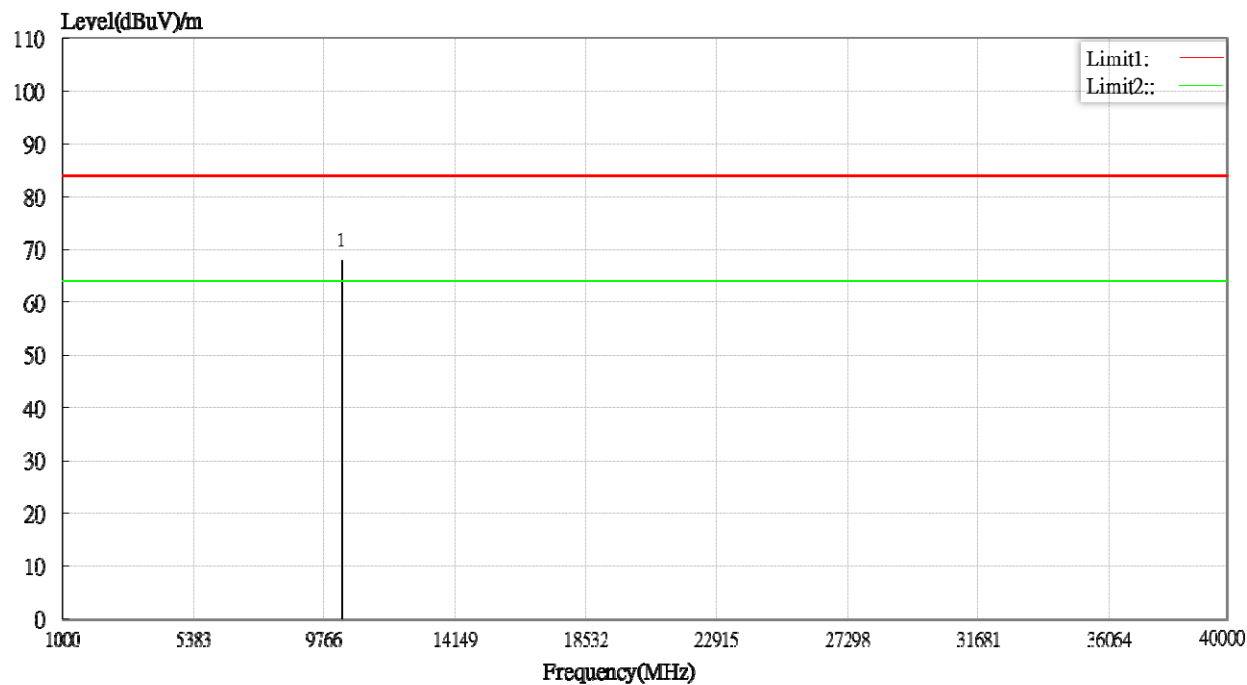


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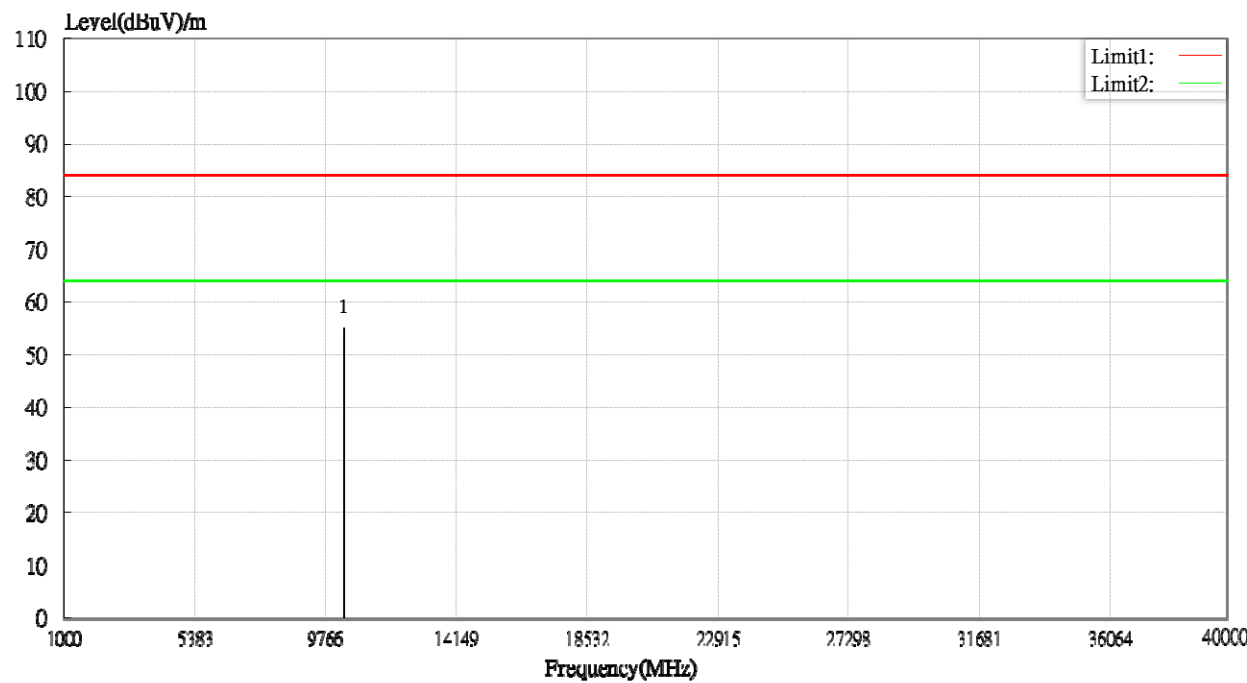


HE20 mode 5180 MHz Vertical XOR

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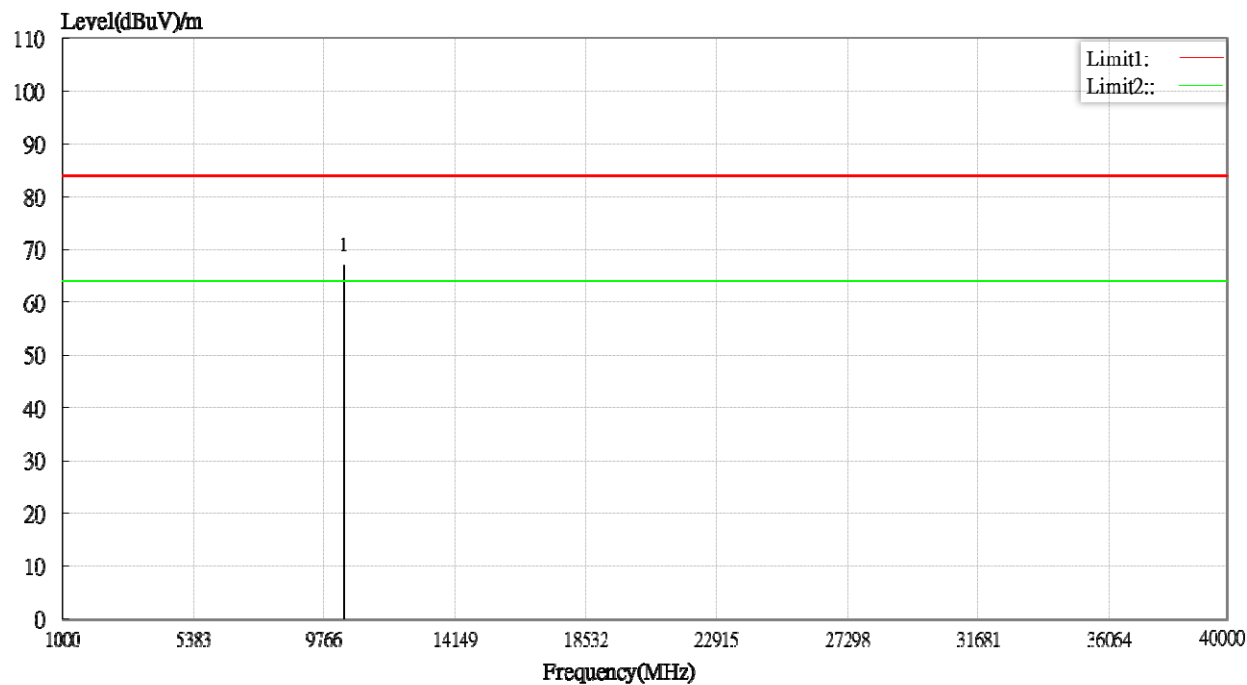


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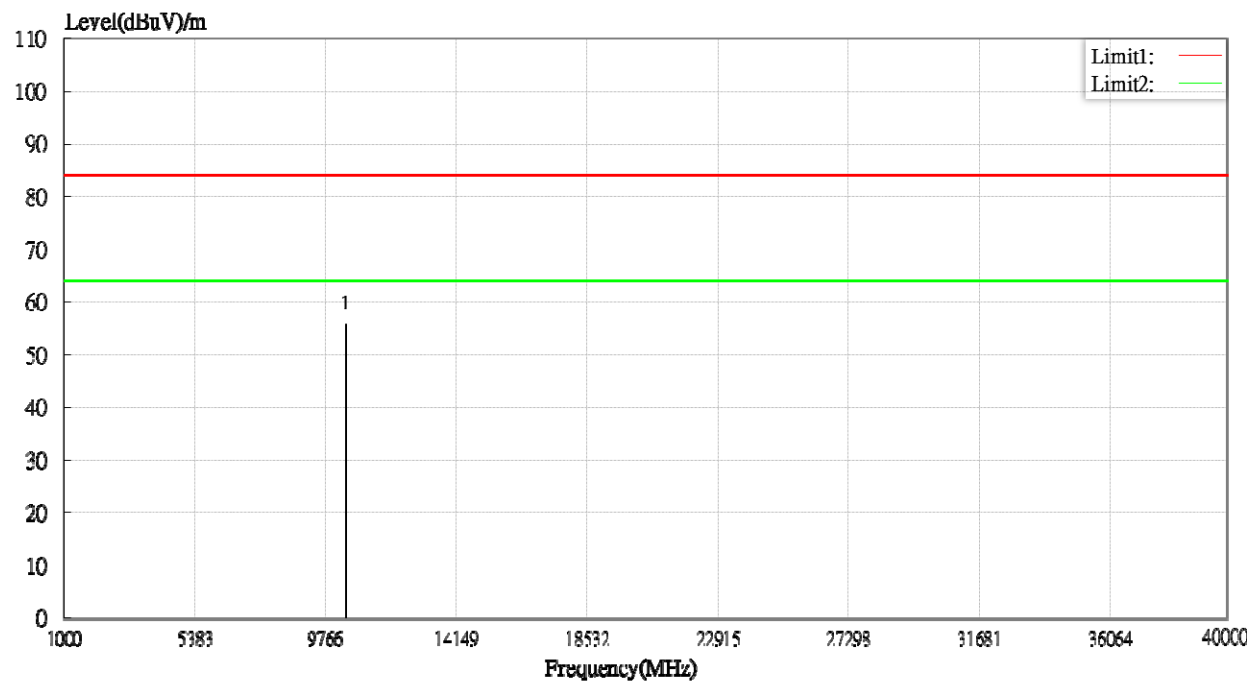


HE20 mode 5220 MHz Horizontal XOR

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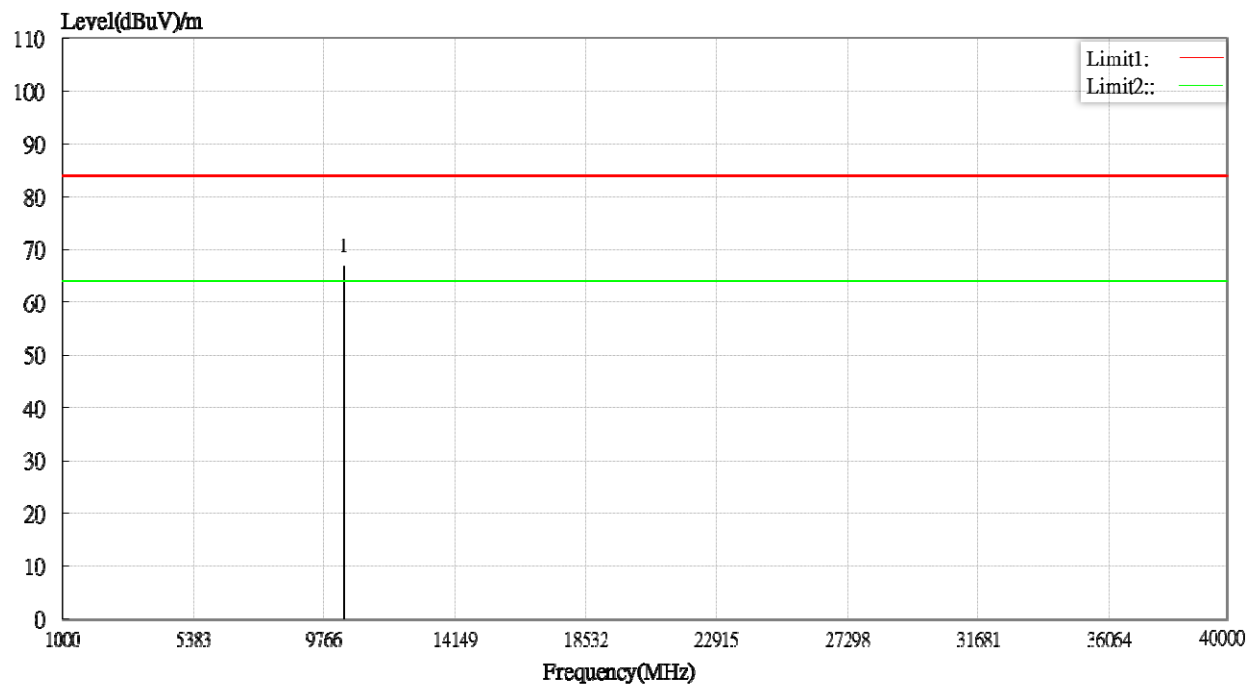


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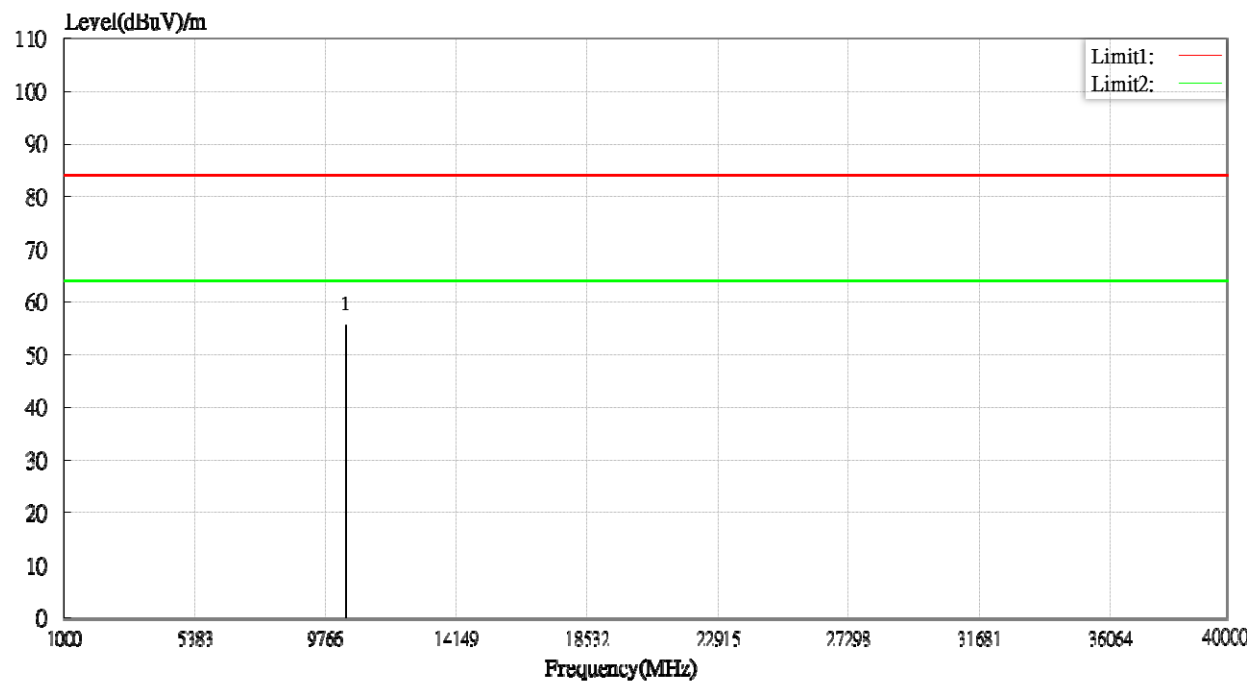


HE20 mode 5220 MHz Vertical XOR

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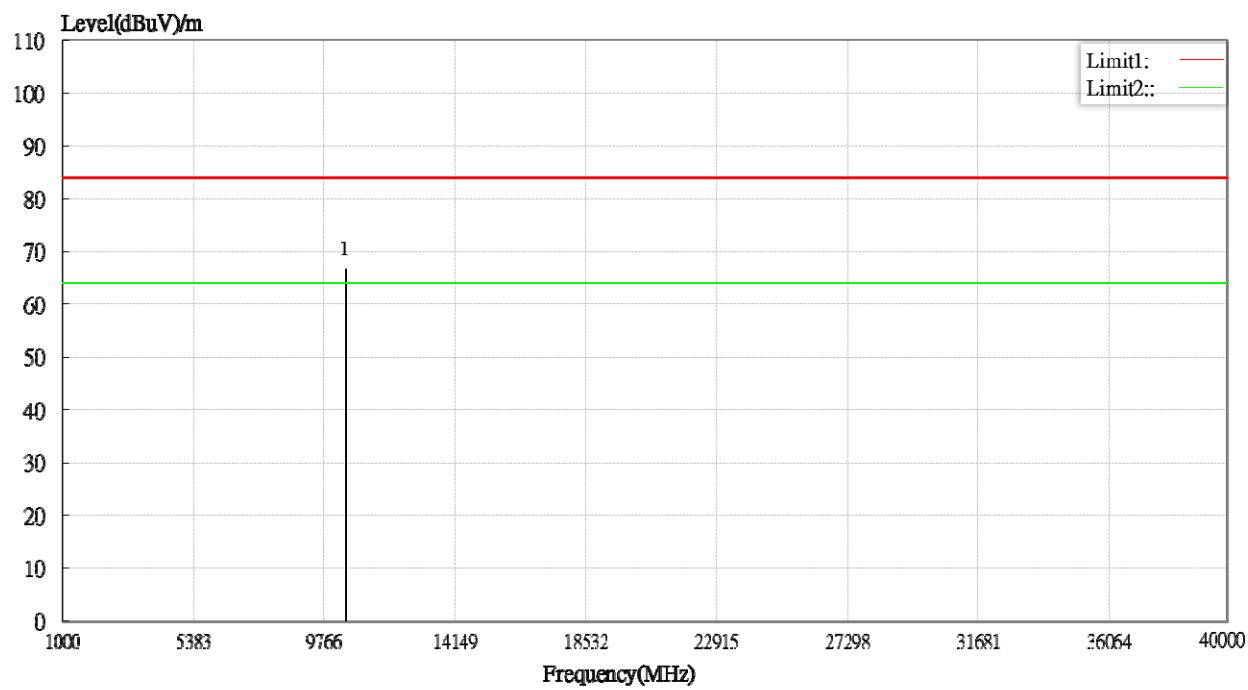


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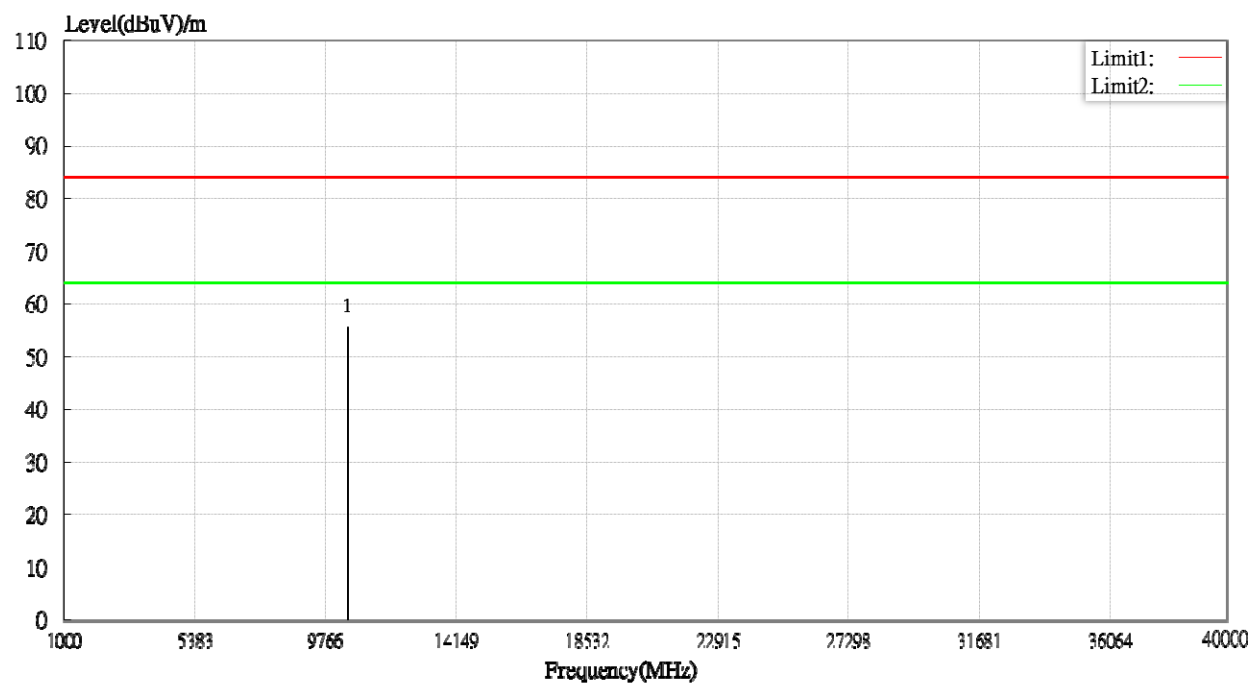


HE20 mode 5240 MHz Horizontal XOR

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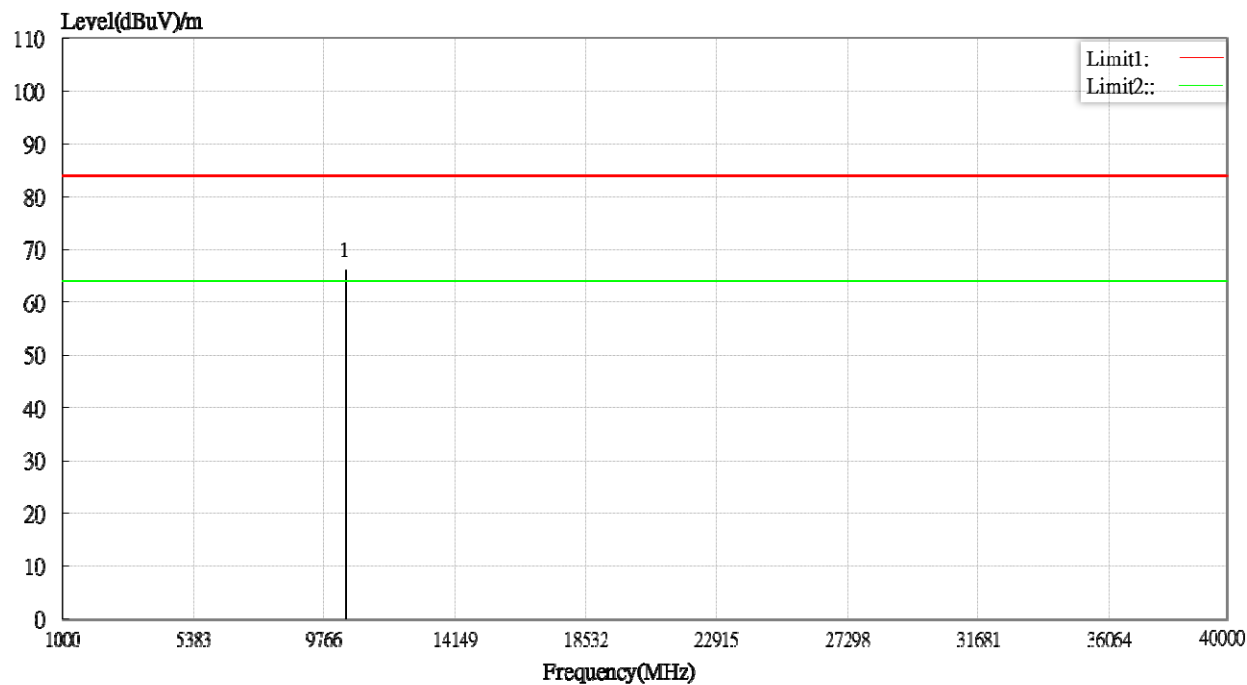


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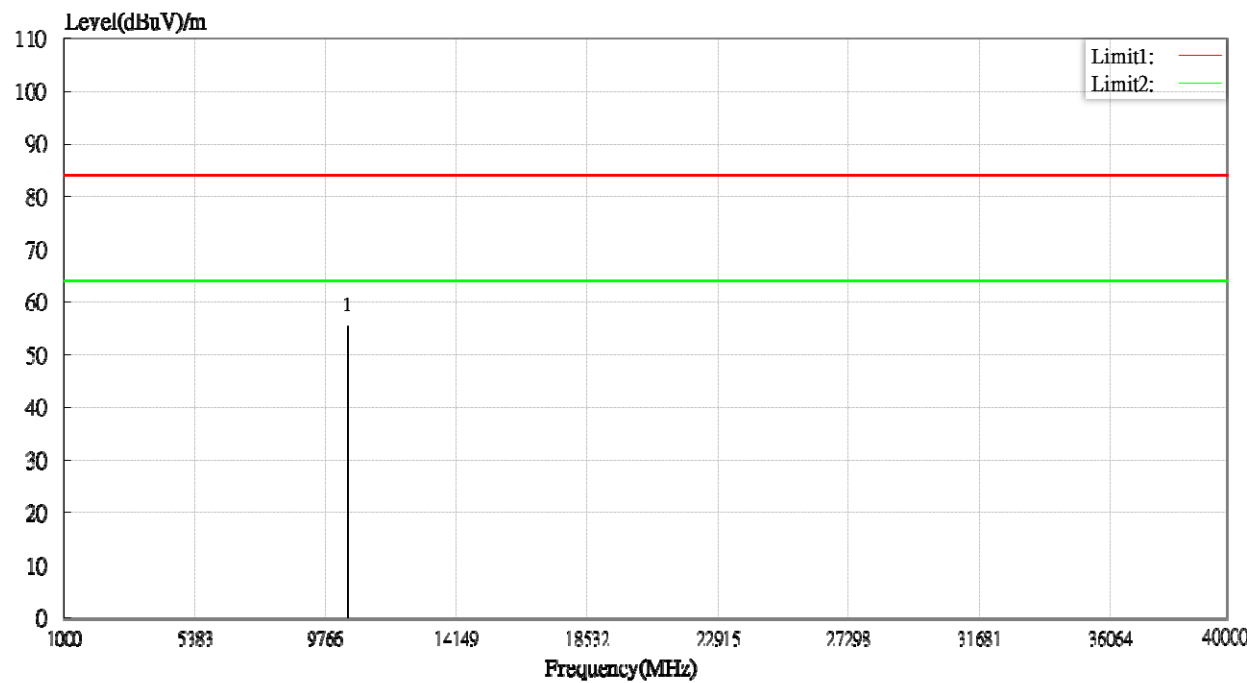


HE20 mode 5240 MHz Vertical XOR

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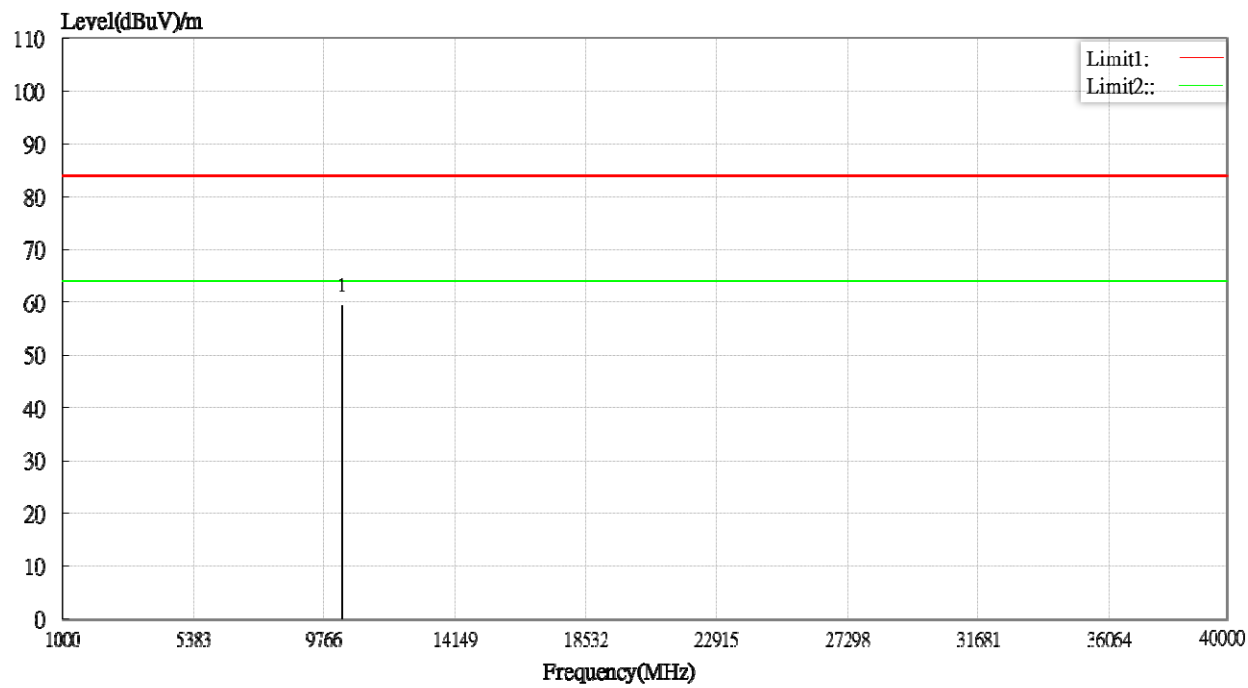


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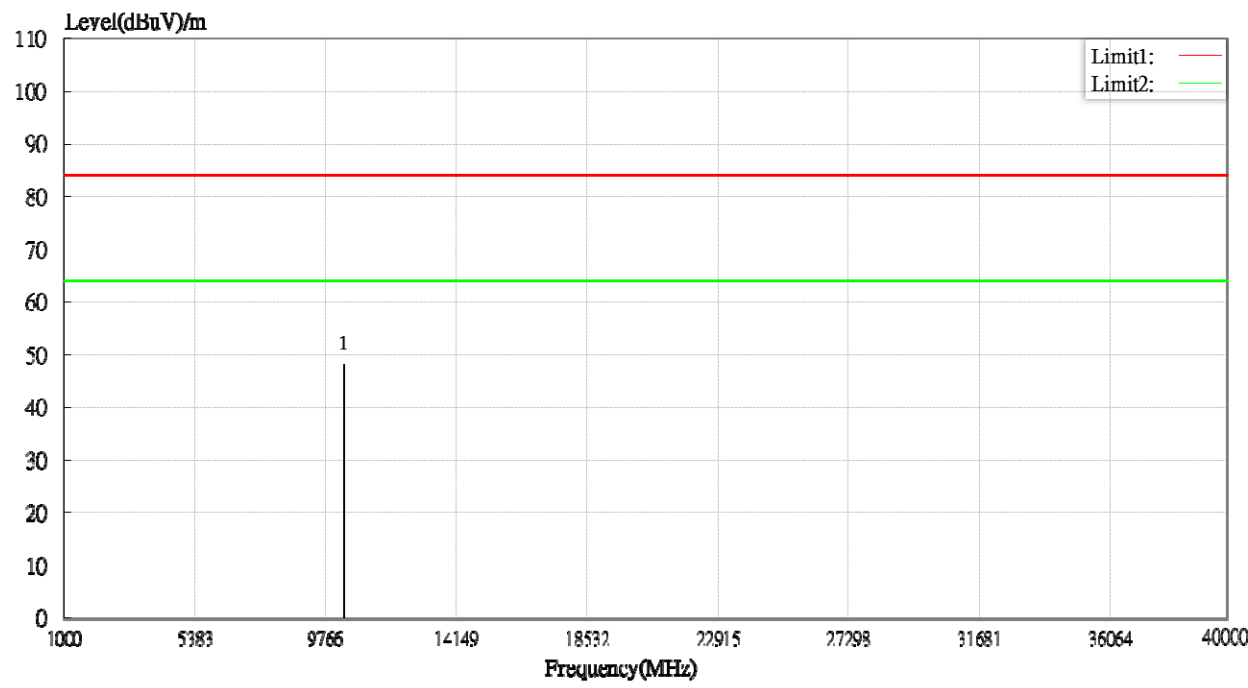


Non HT40 mode 5190 MHz Horizontal XOR

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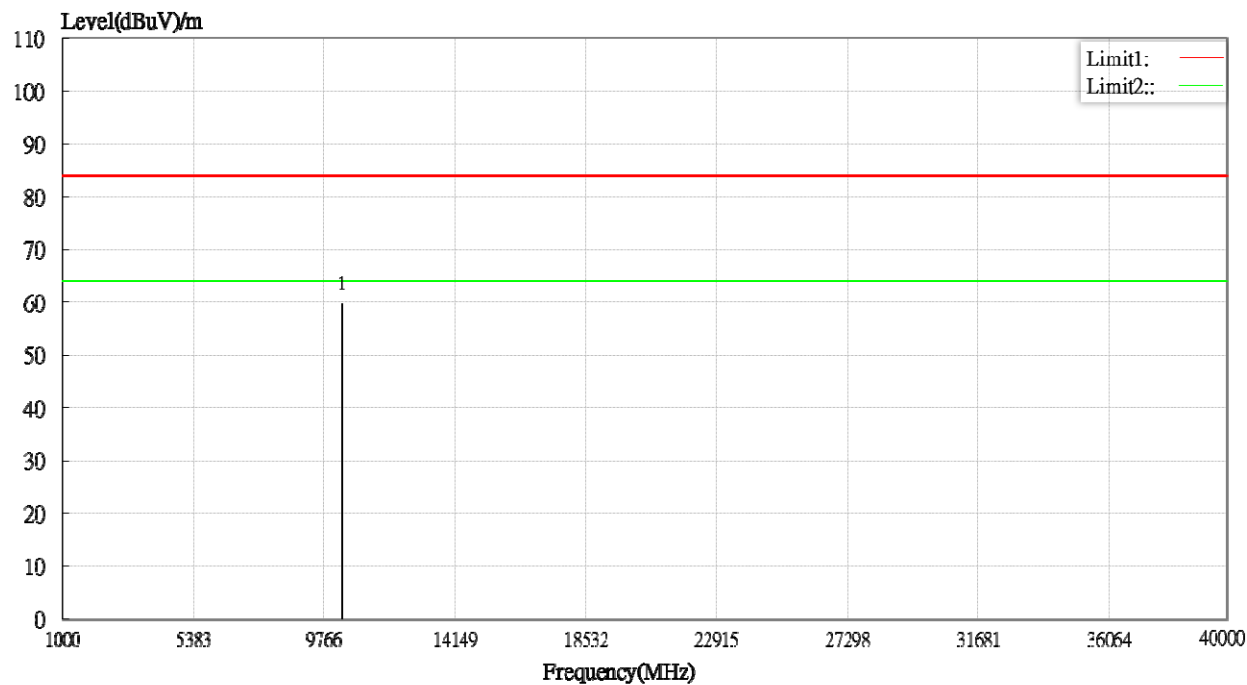


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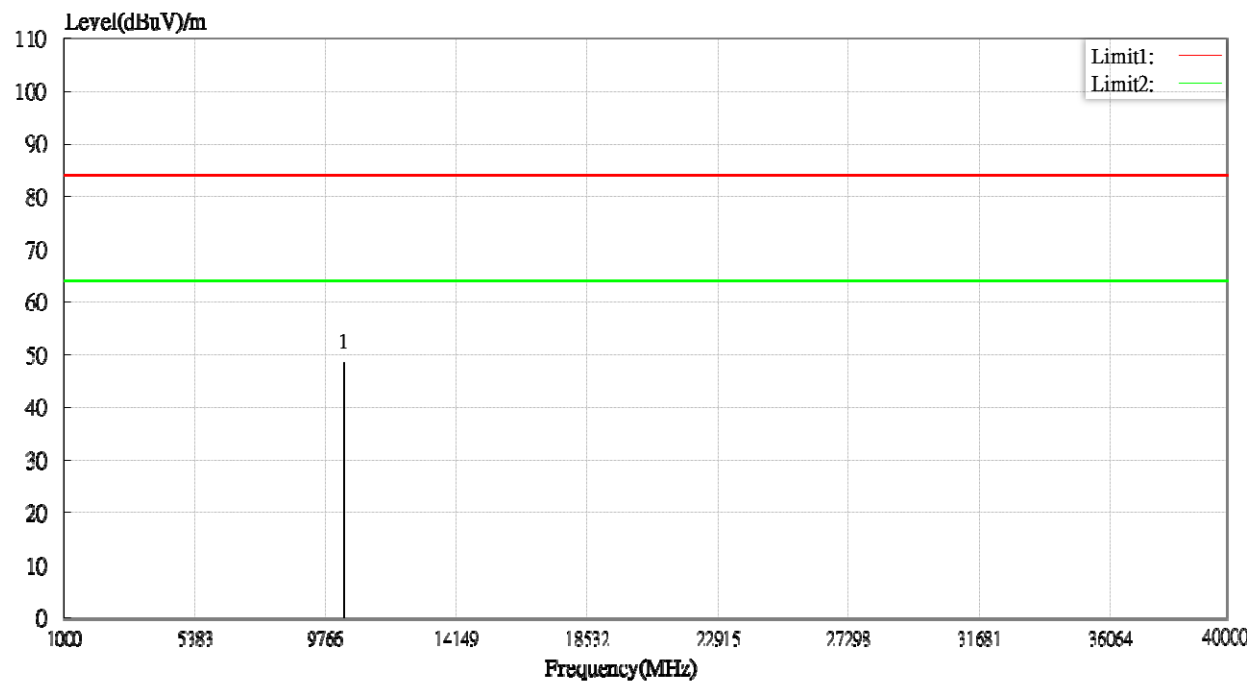


Non HT40 mode 5190 MHz Vertical XOR

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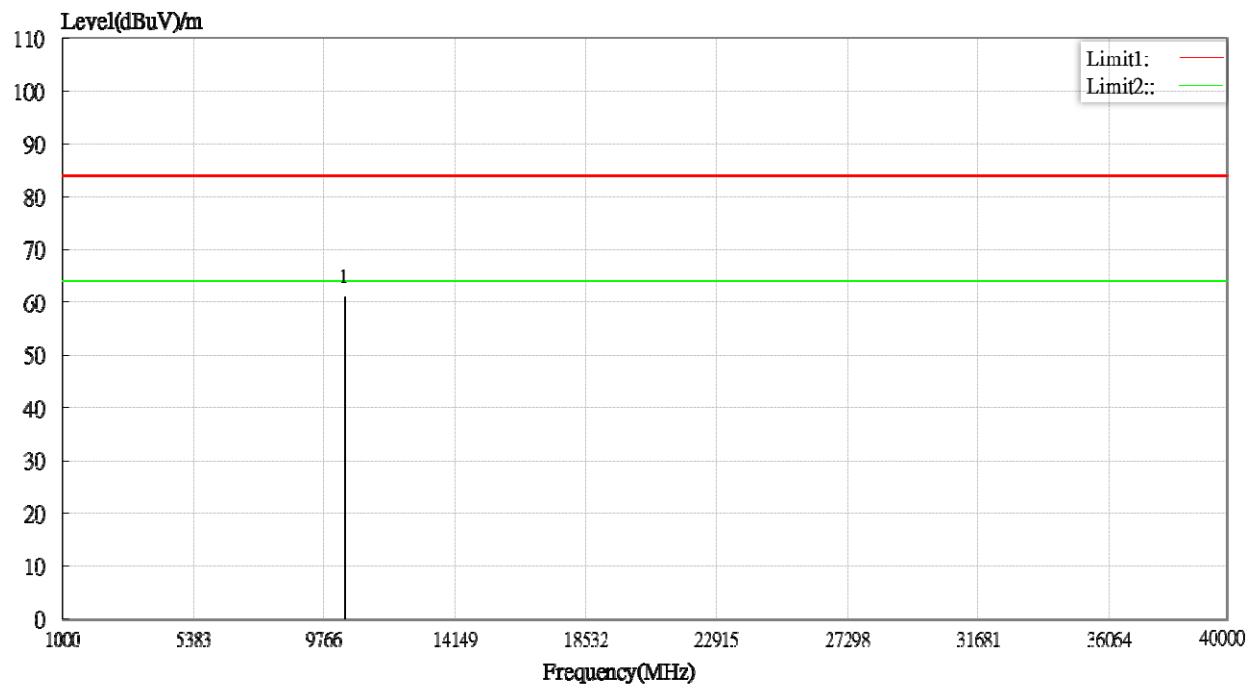


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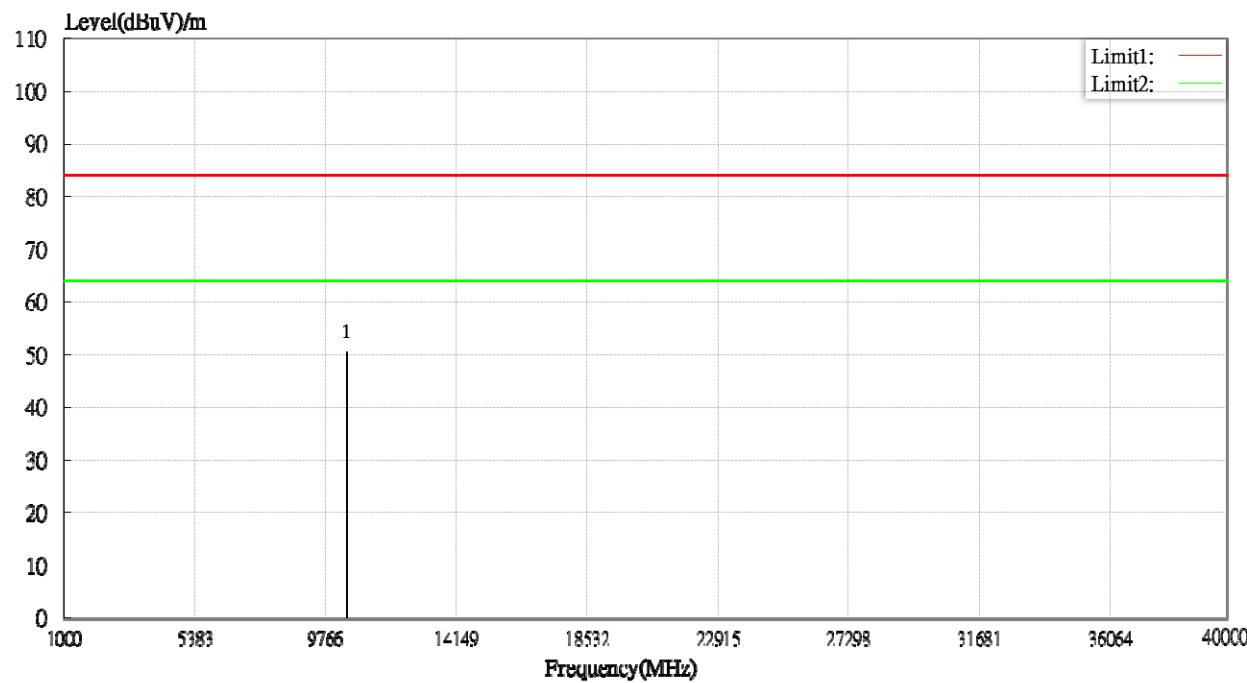


Non HT40 mode 5230 MHz Horizontal XOR

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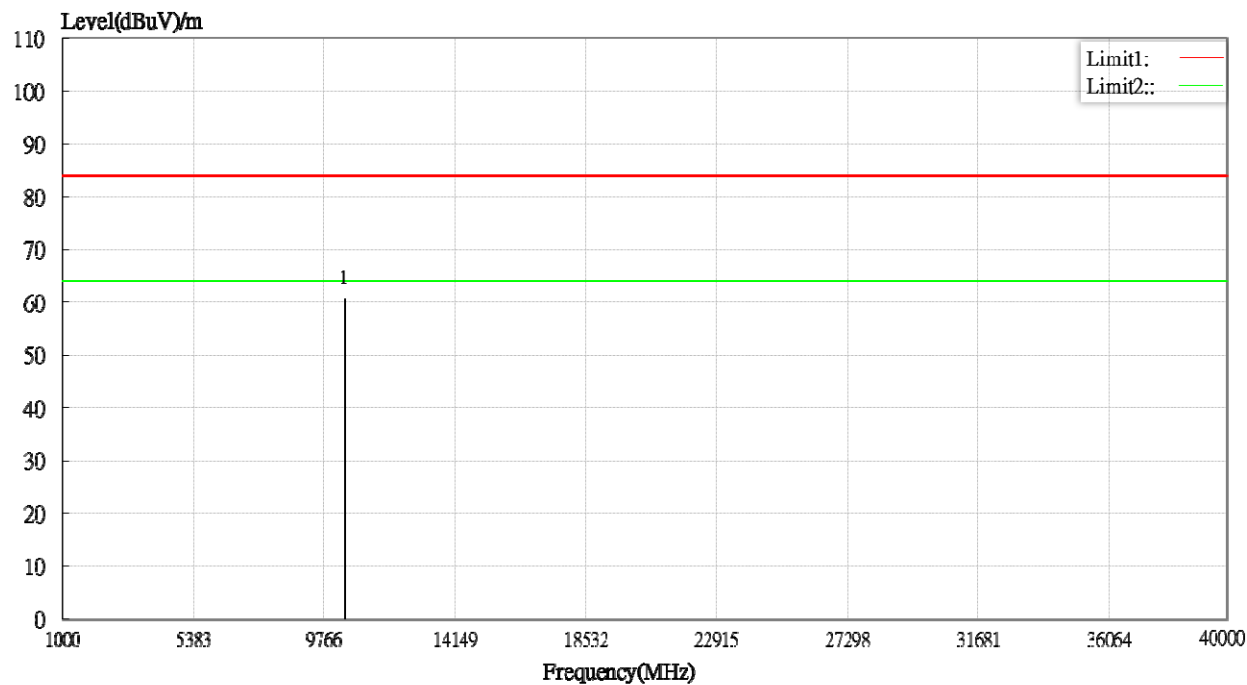


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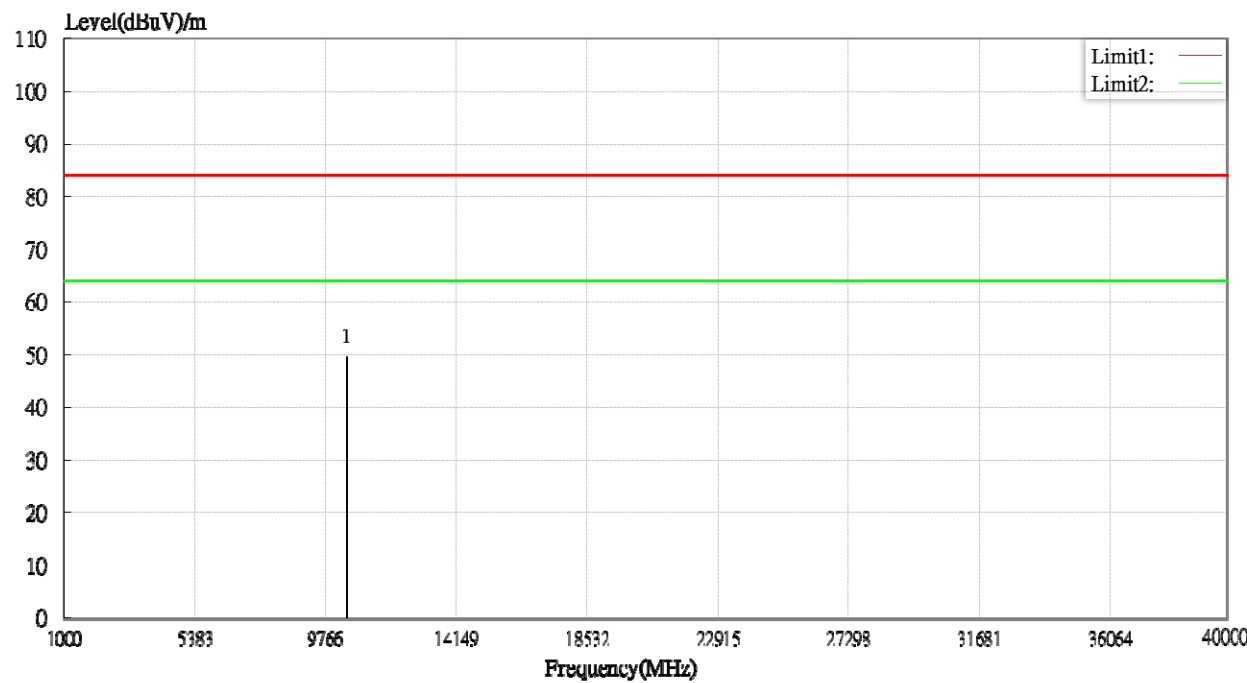


Non HT40 mode 5230 MHz Vertical XOR

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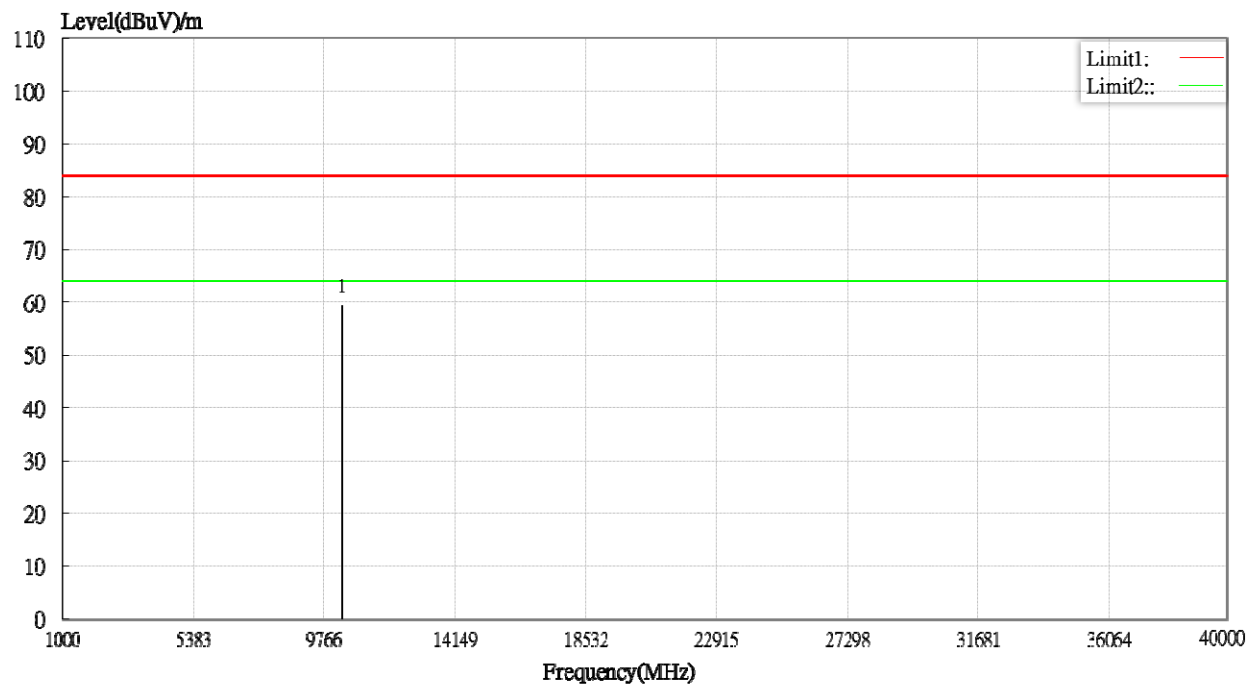


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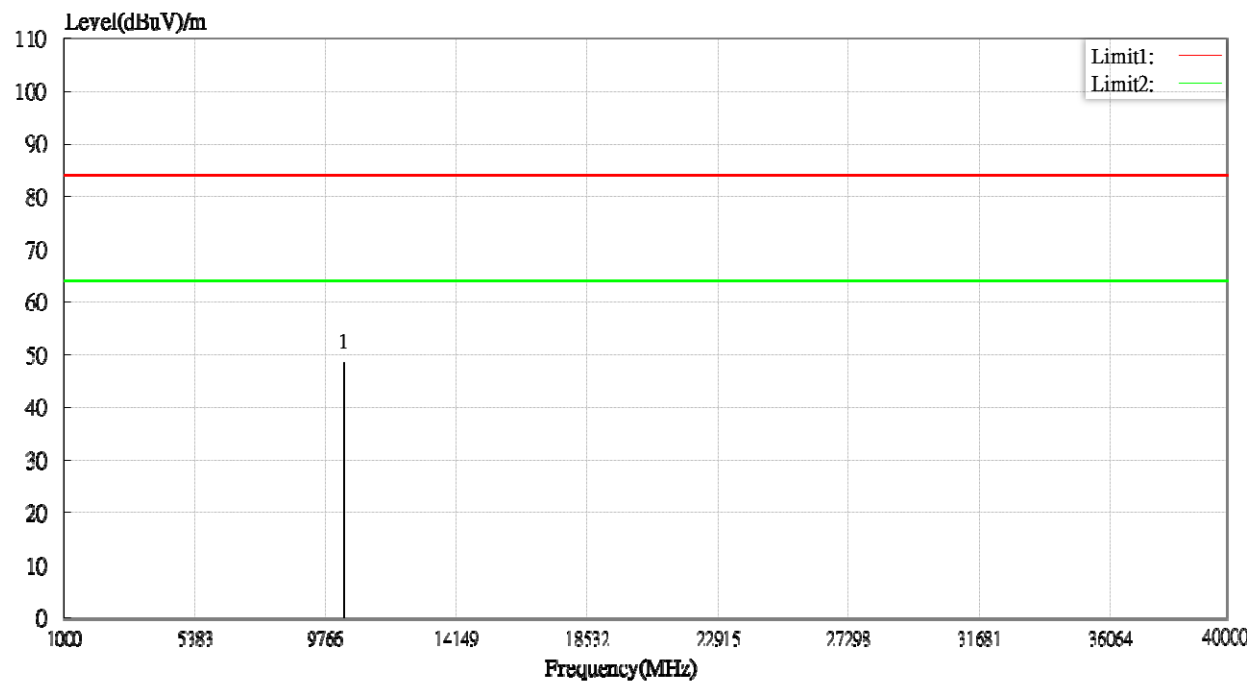


HT/VHT40 mode 5190 MHz Horizontal XOR

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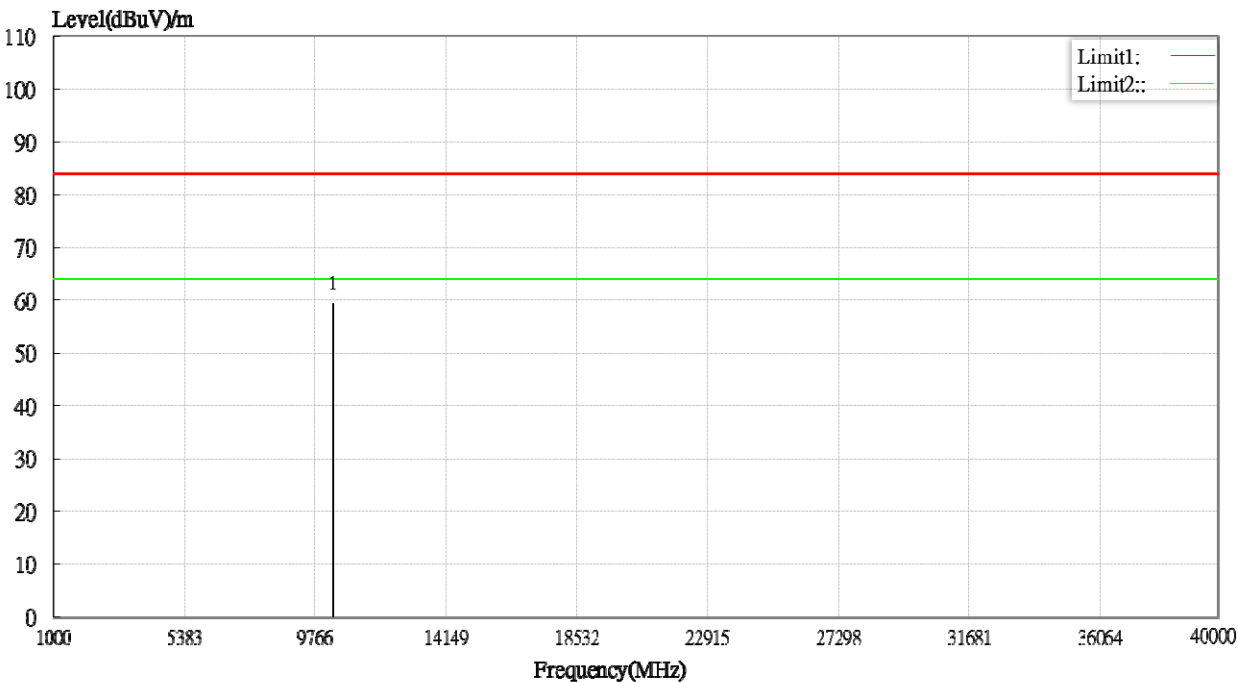


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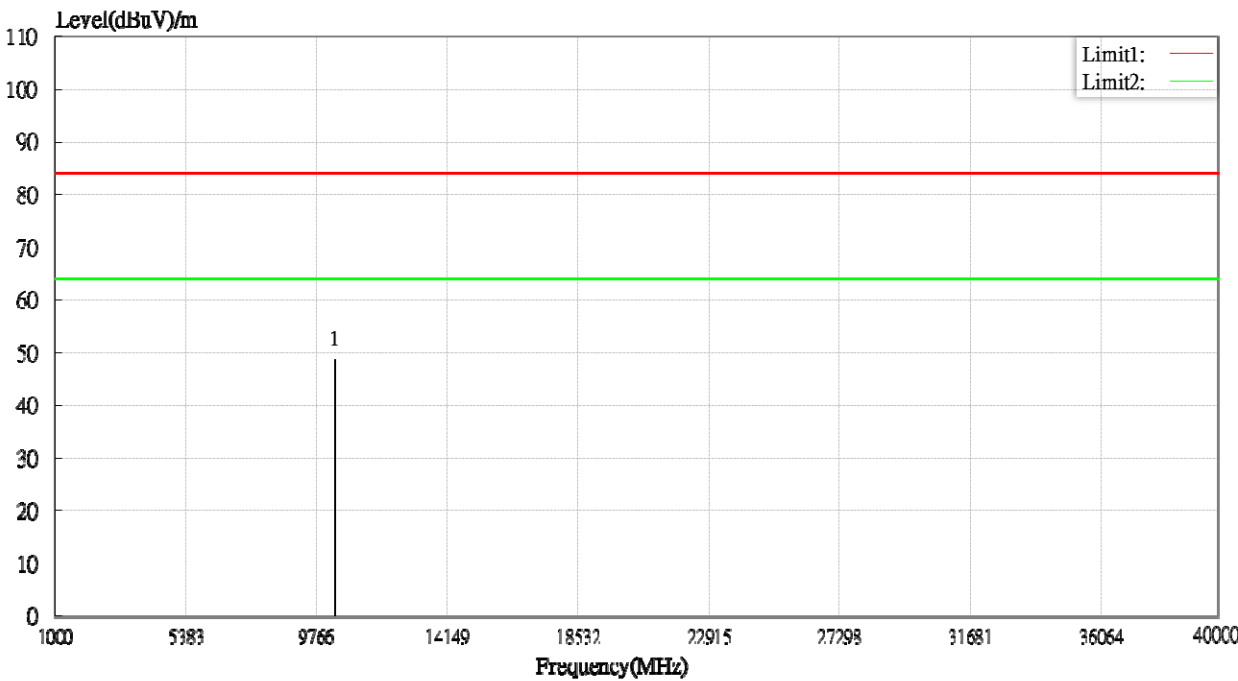


HT/VHT40 mode 5190 MHz Vertical XOR

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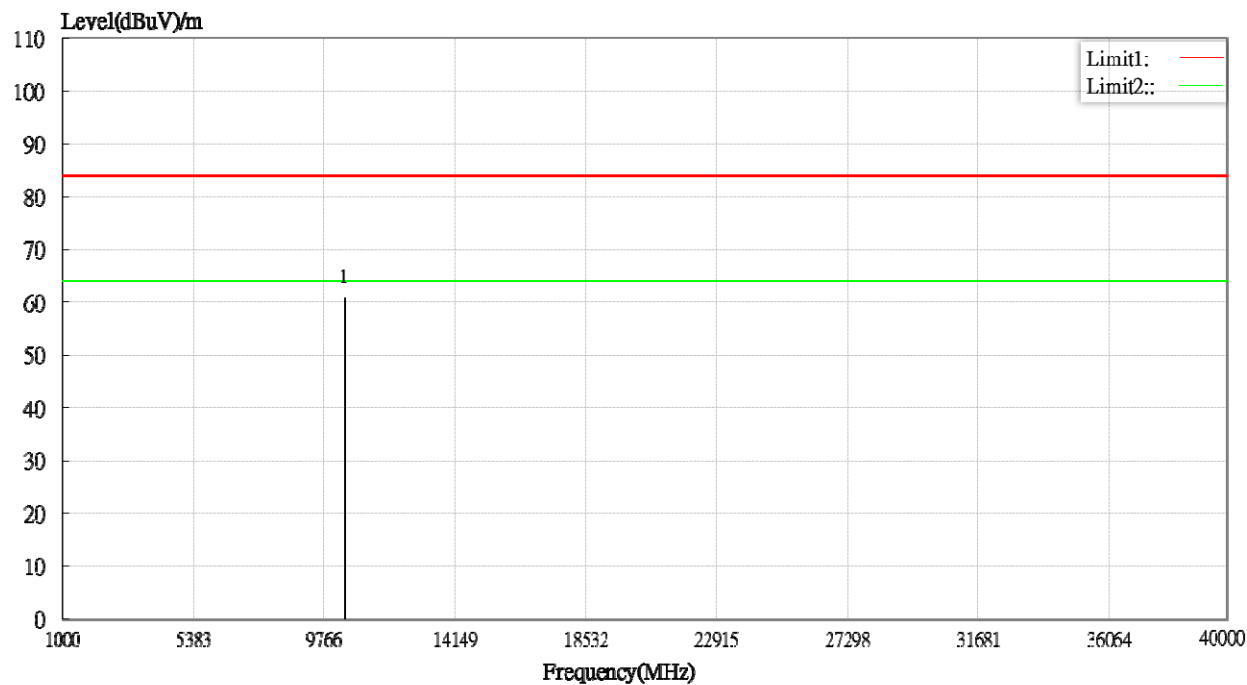


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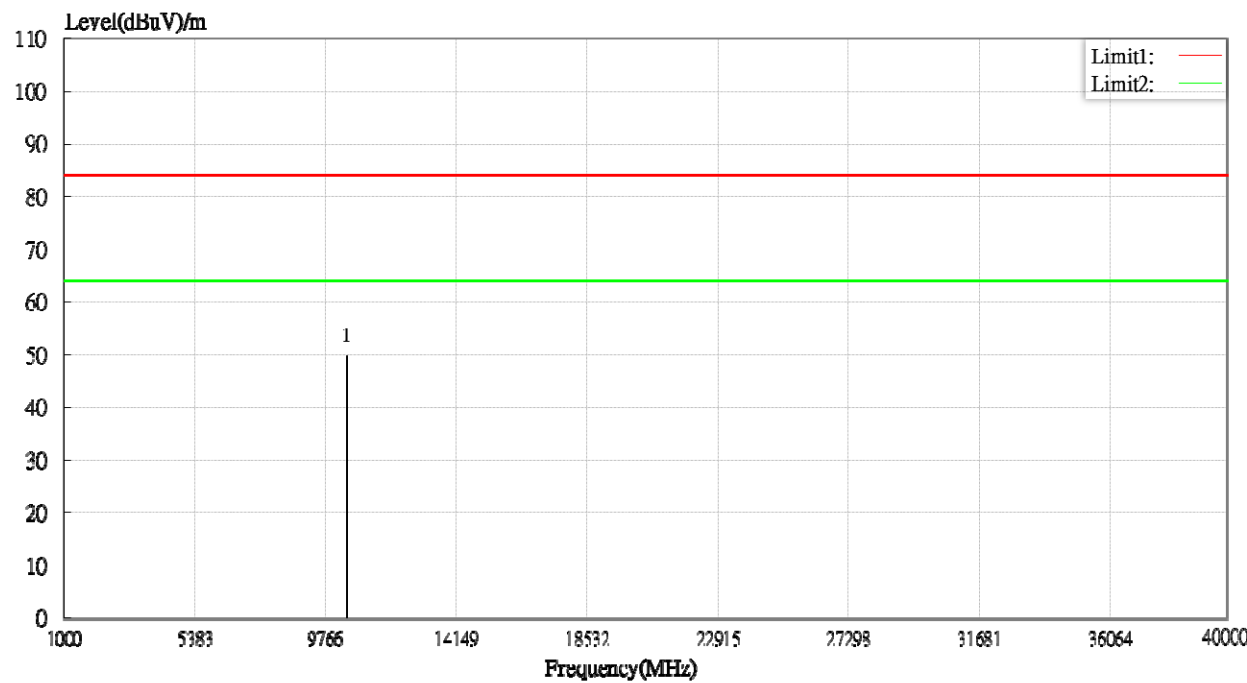


HT/VHT40 mode 5230 MHz Horizontal XOR

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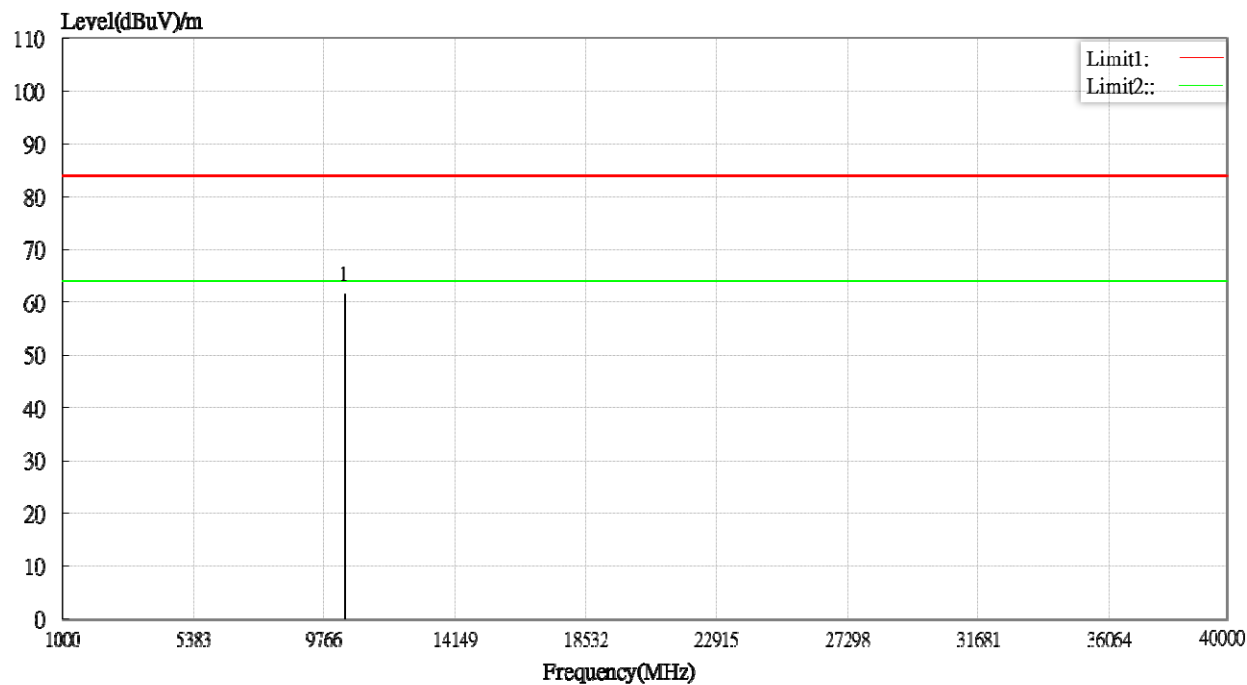


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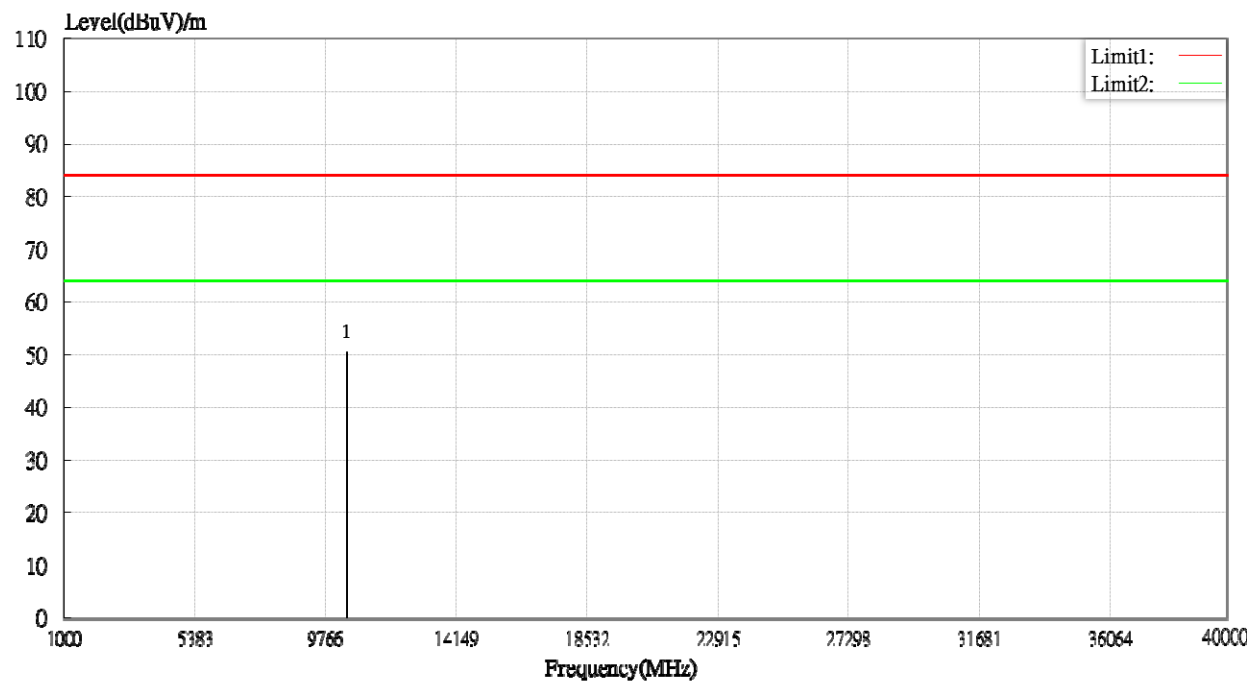


HT/VHT40 mode 5230 MHz Vertical XOR

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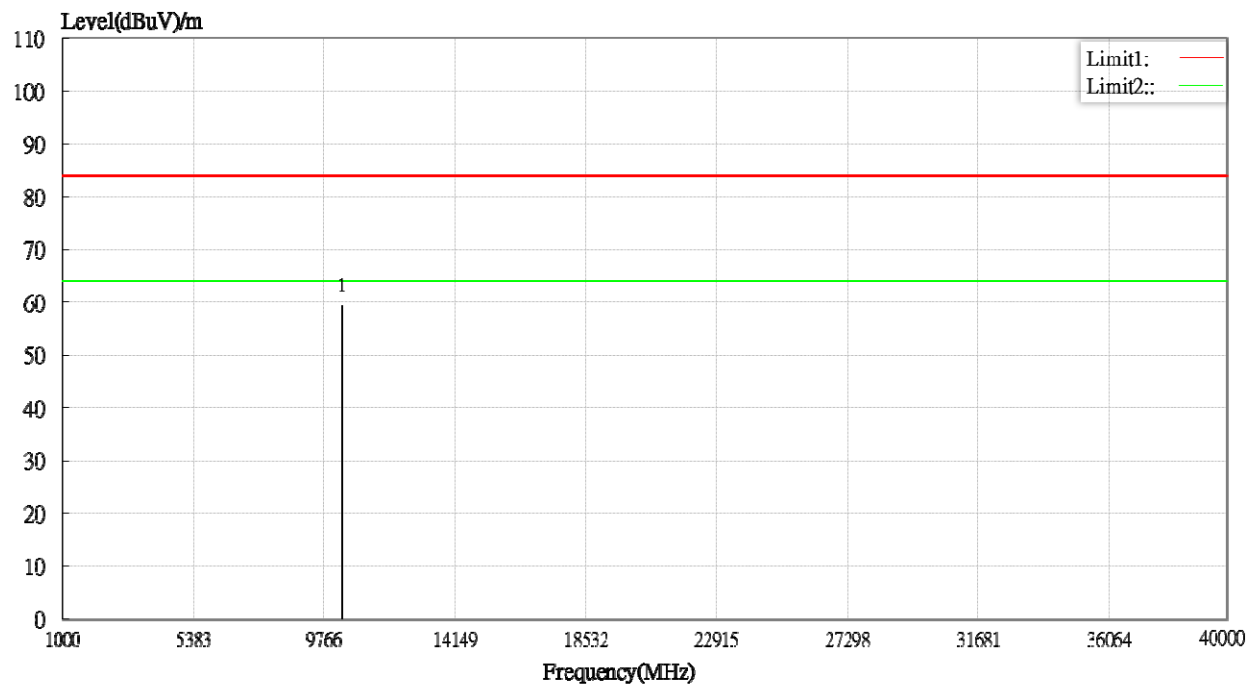


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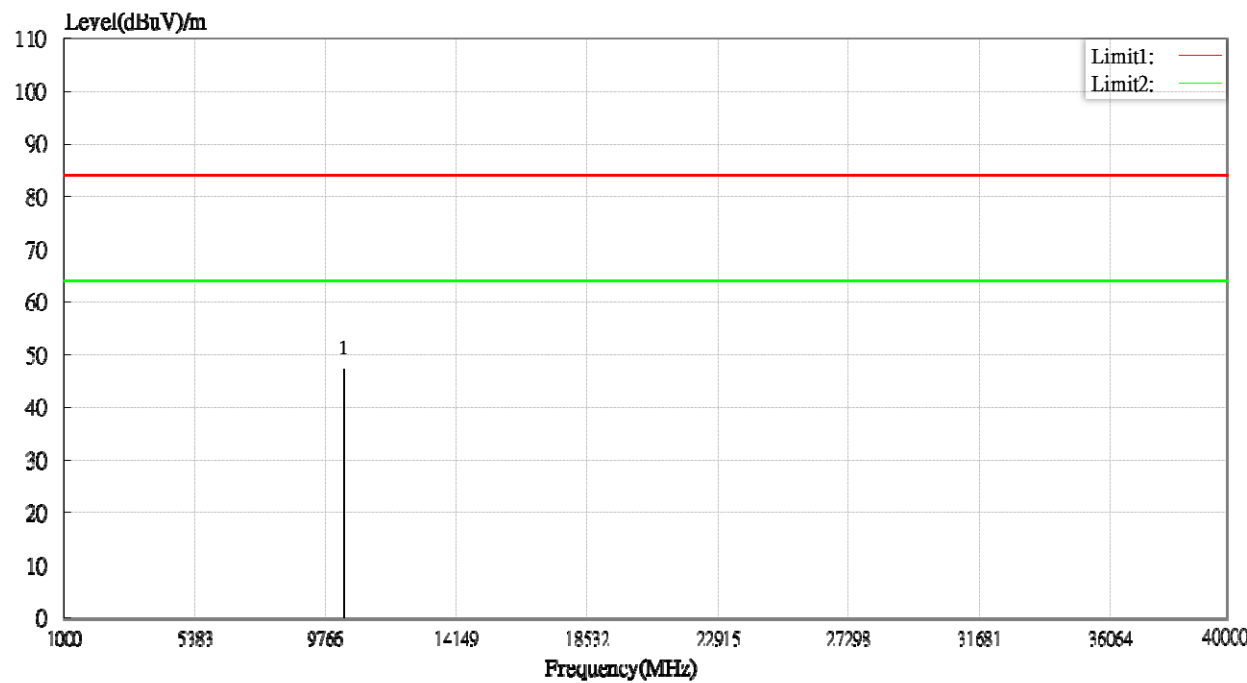


HE40 mode 5190 MHz Horizontal XOR

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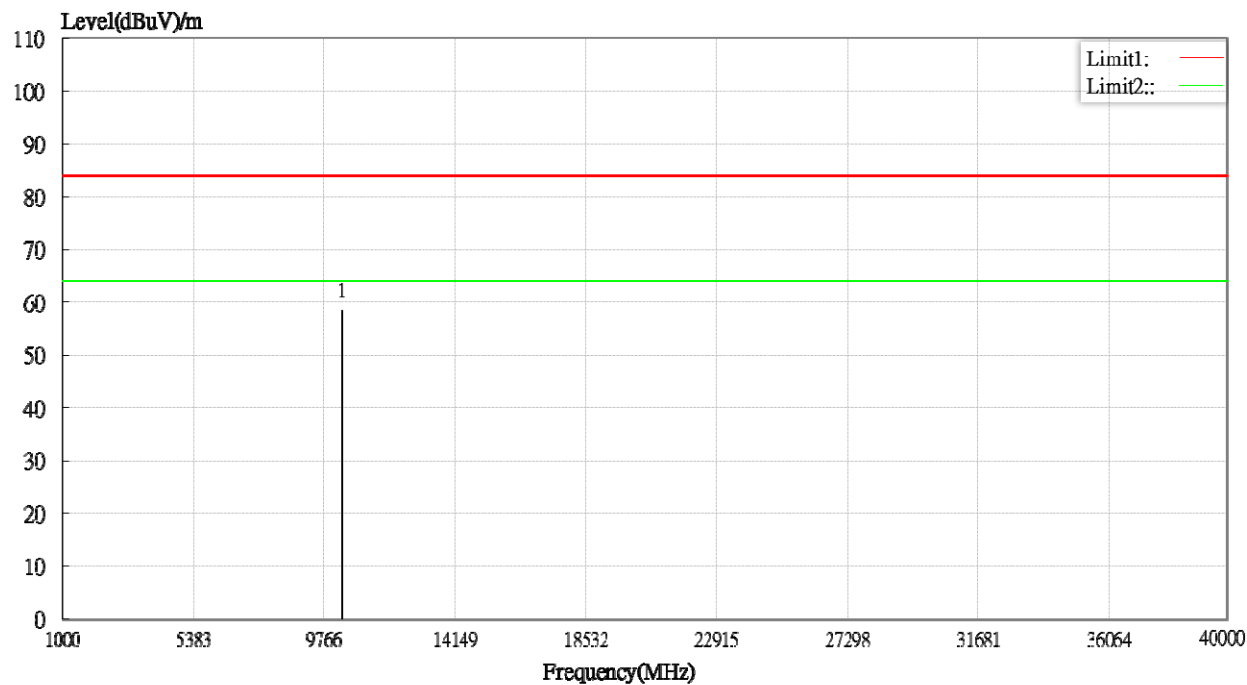


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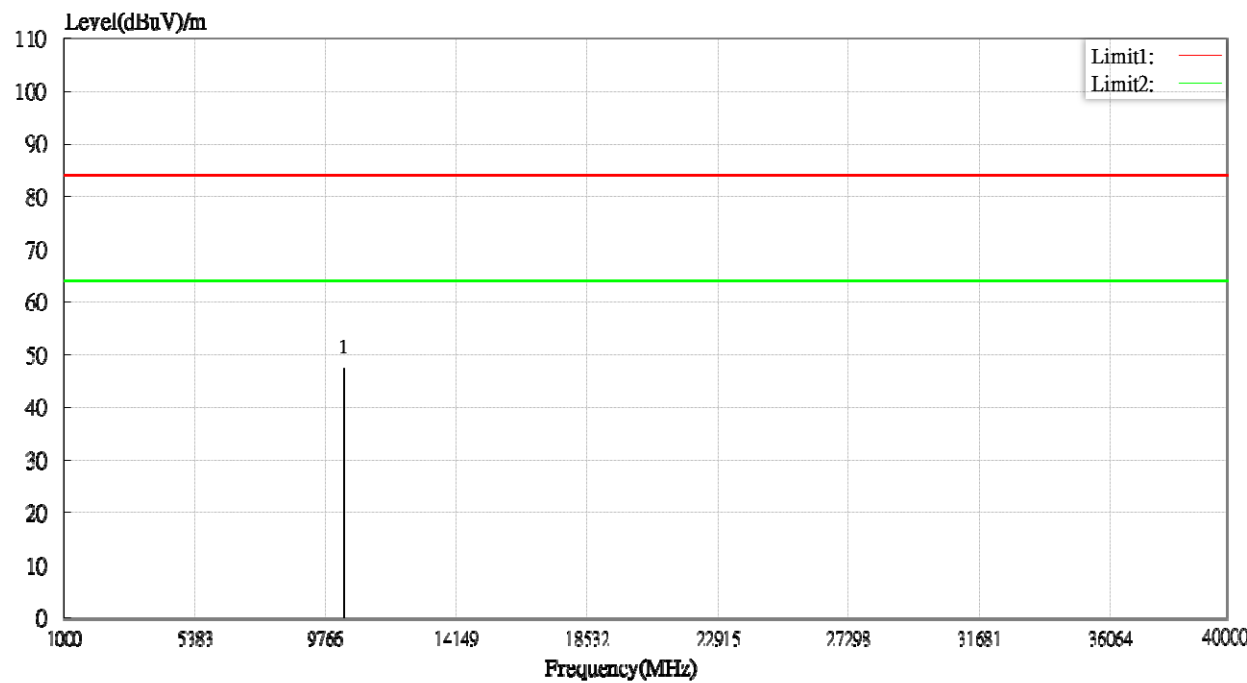


HE40 mode 5190 MHz Vertical XOR

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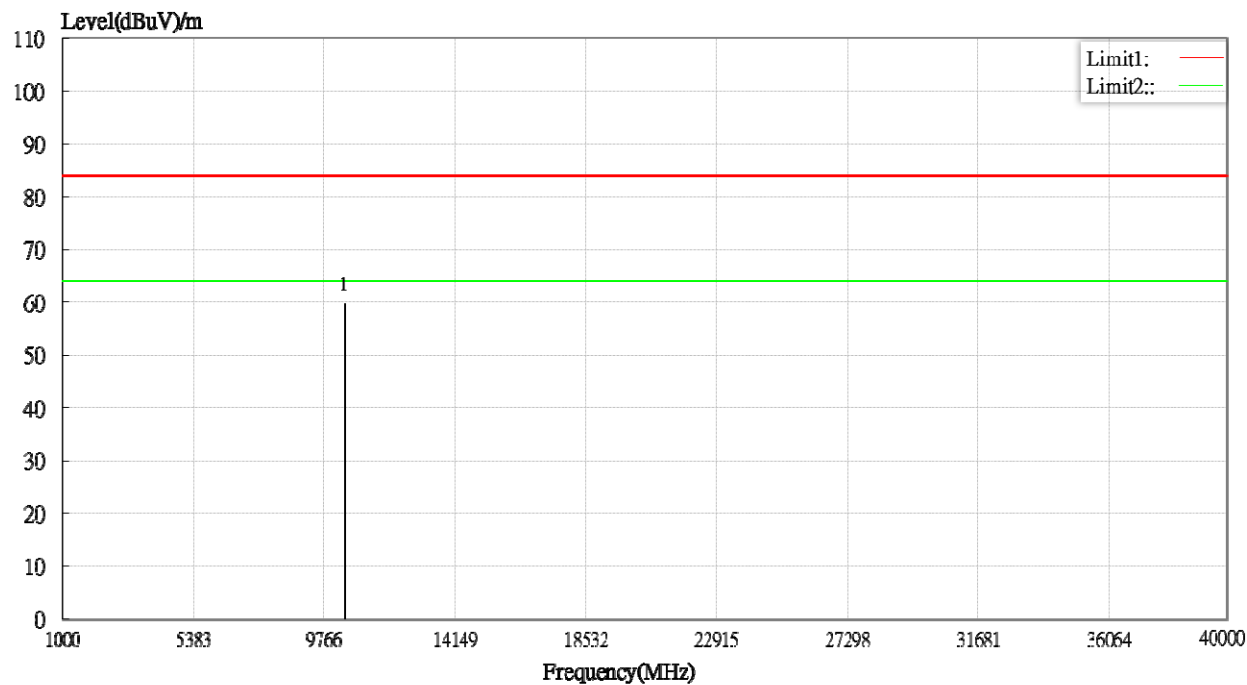


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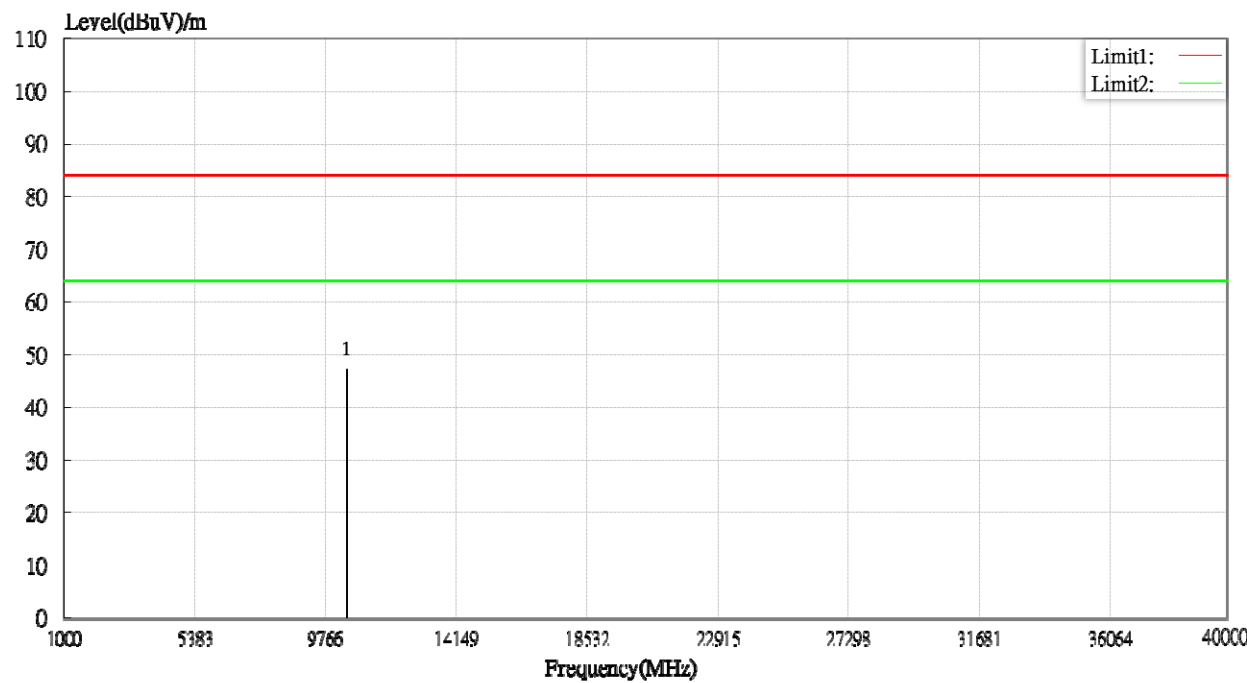


HE40 mode 5230 MHz Horizontal XOR

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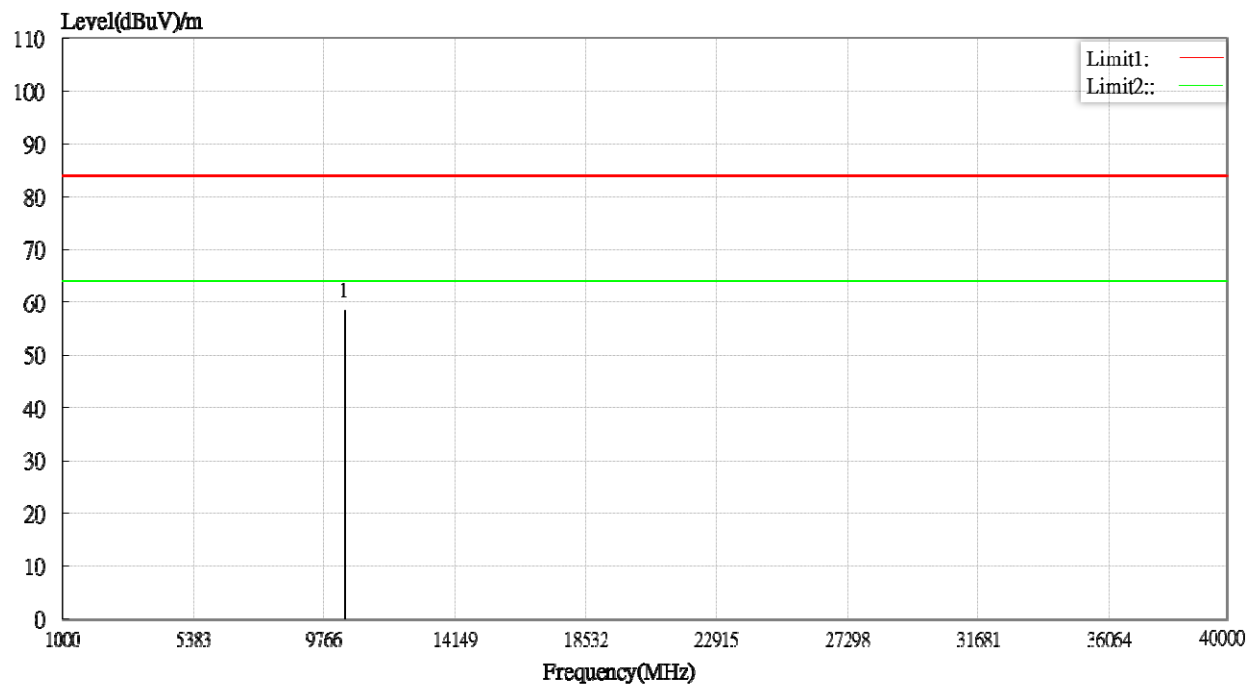


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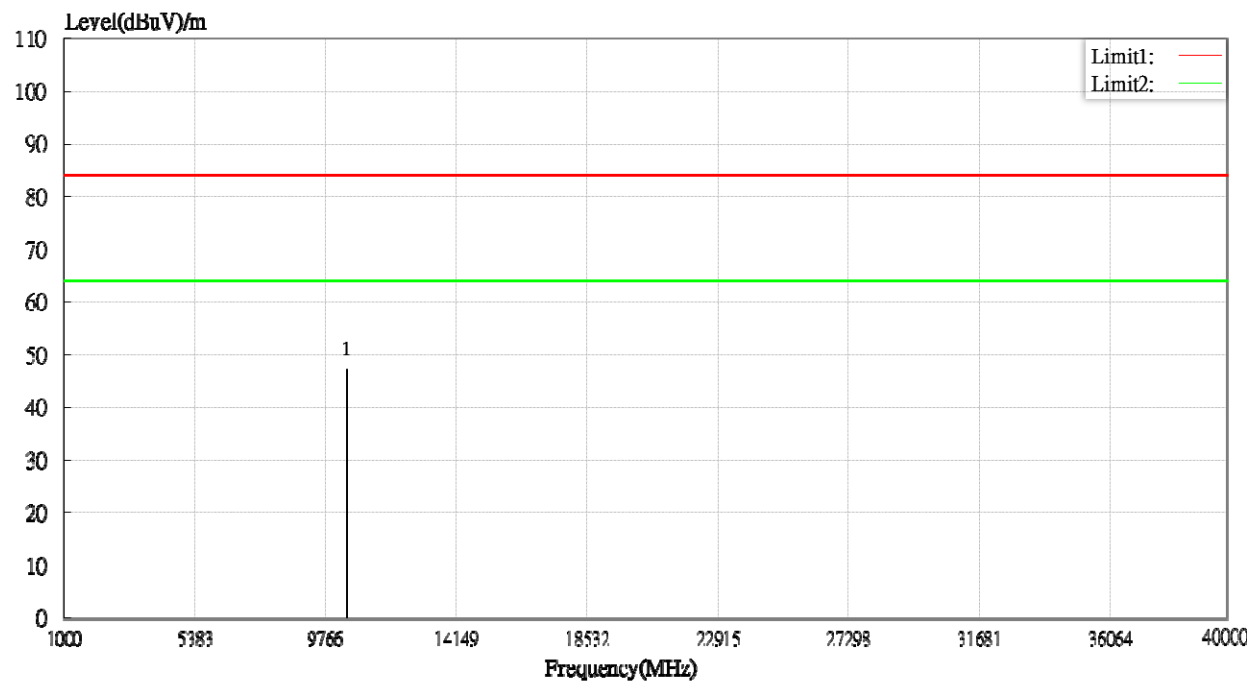


HE40 mode 5230 MHz Vertical XOR

PK

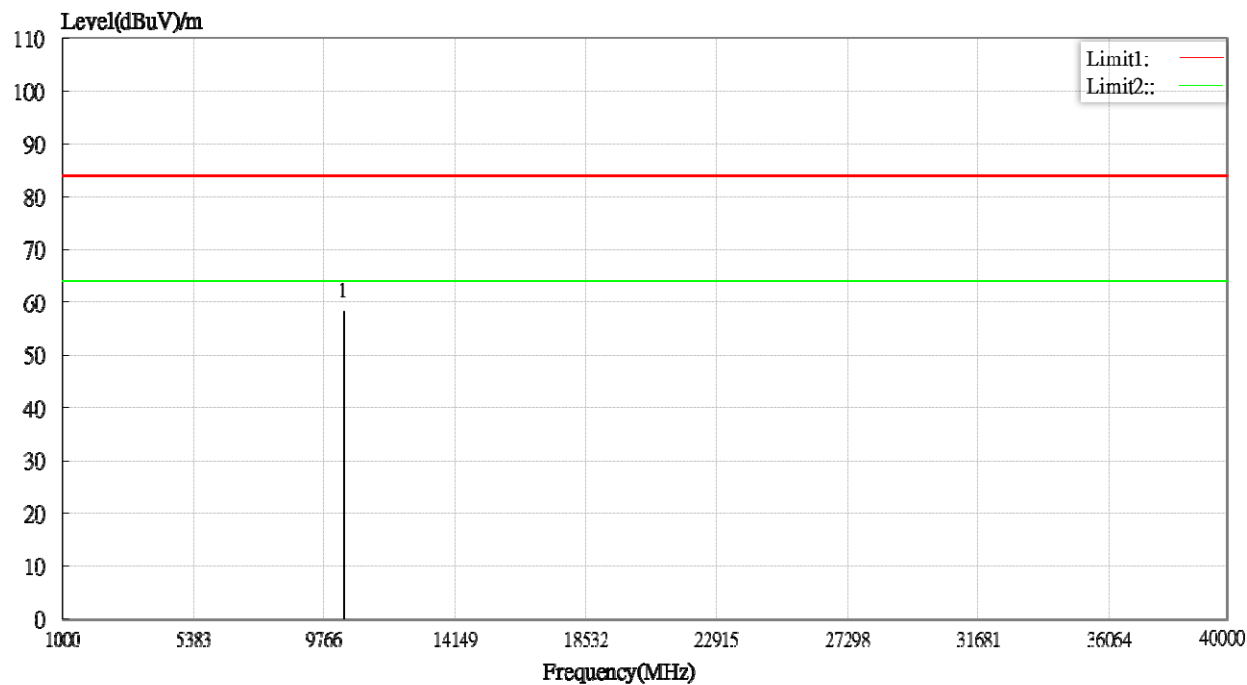


AVG

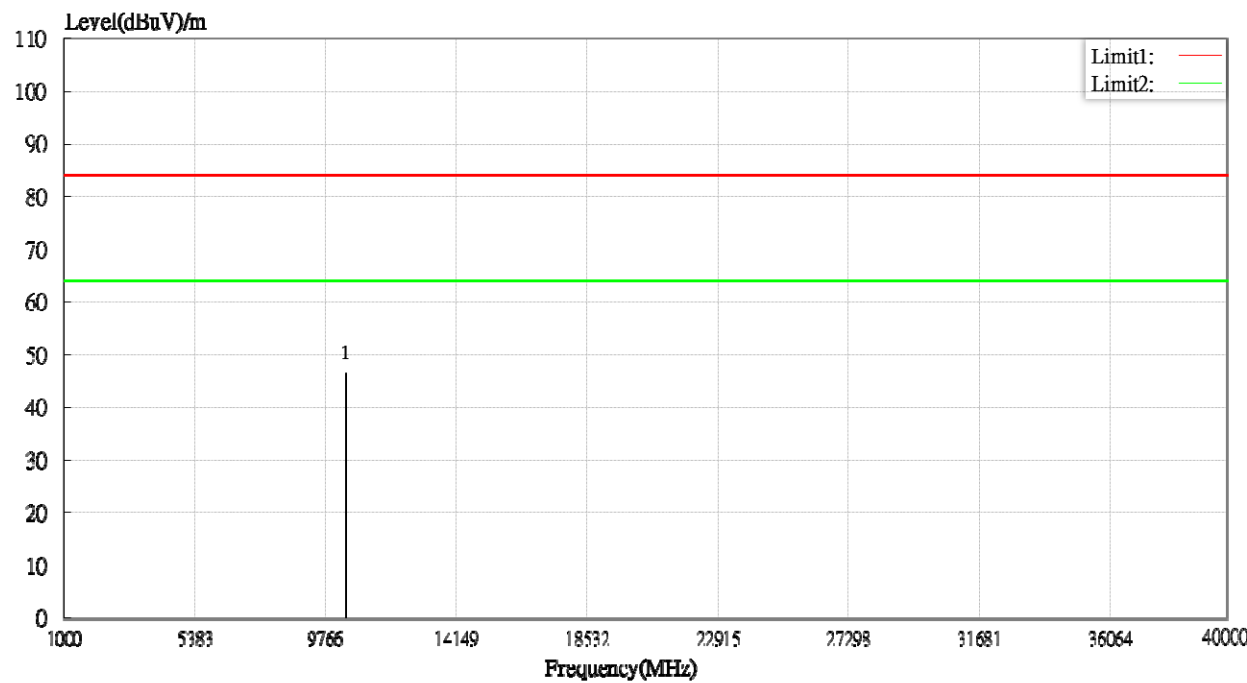


Non HT80 mode 5210 MHz Horizontal XOR

PK

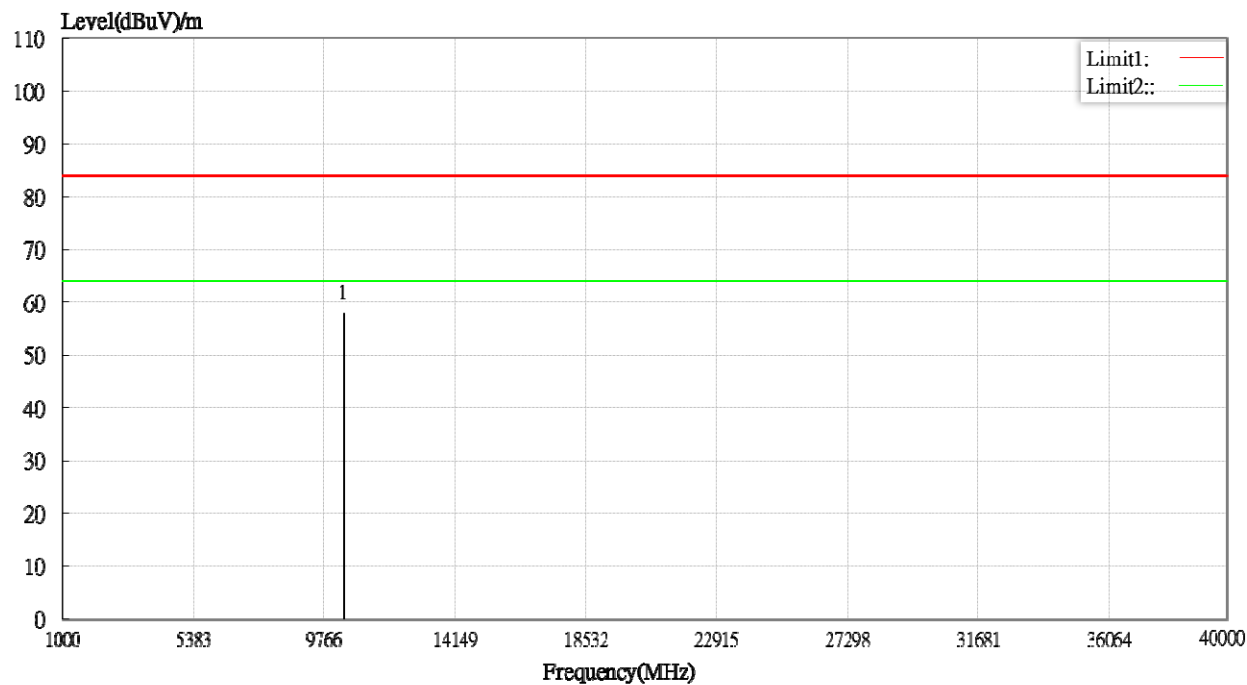


AVG

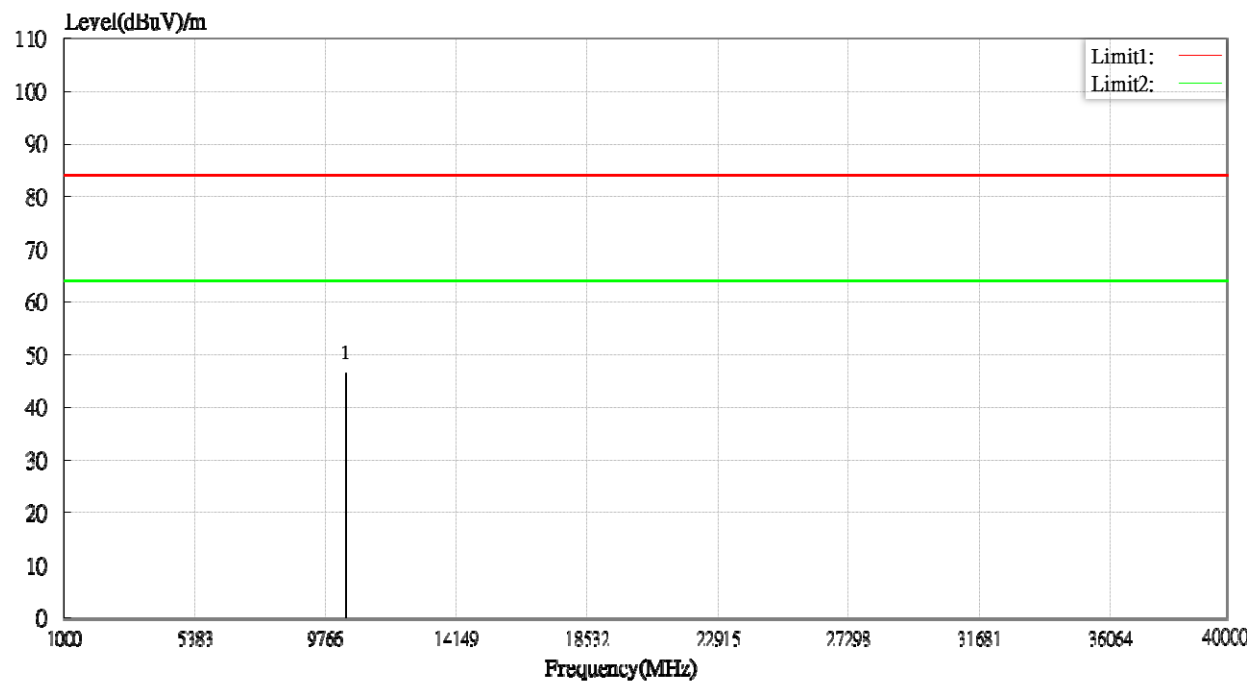


Non HT80 mode 5210 MHz Vertical XOR

PK

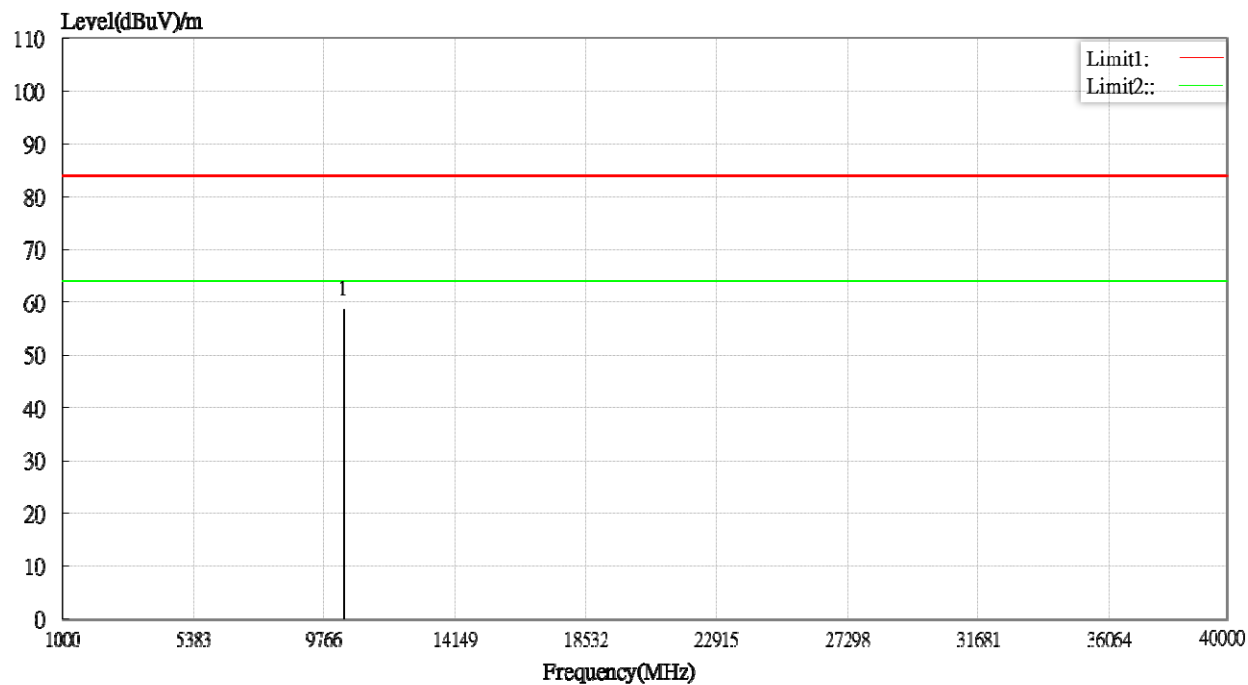


AVG

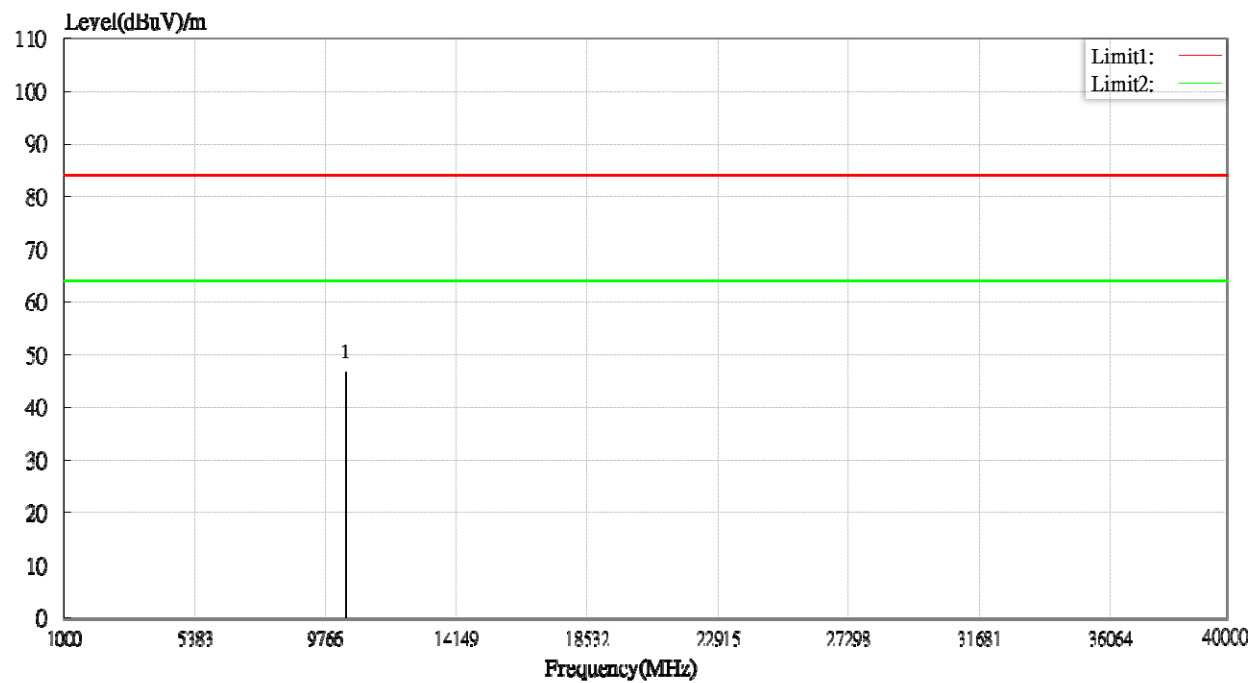


VHT80 mode 5210 MHz Horizontal XOR

PK

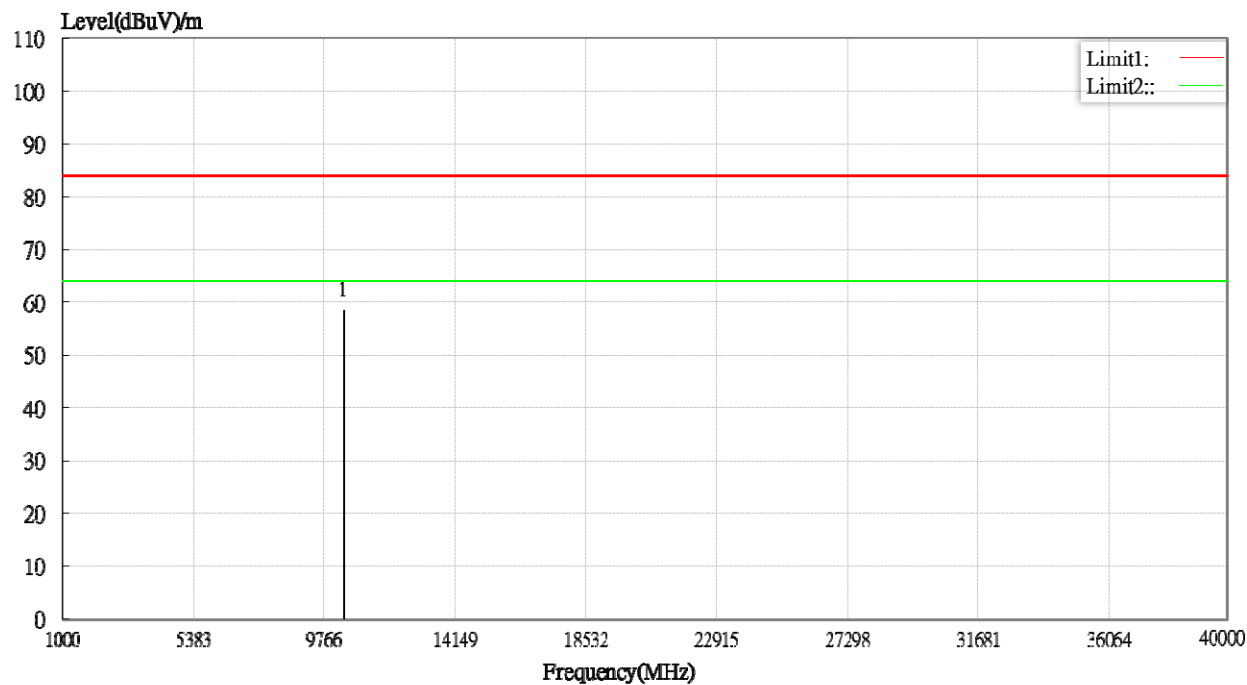


AVG

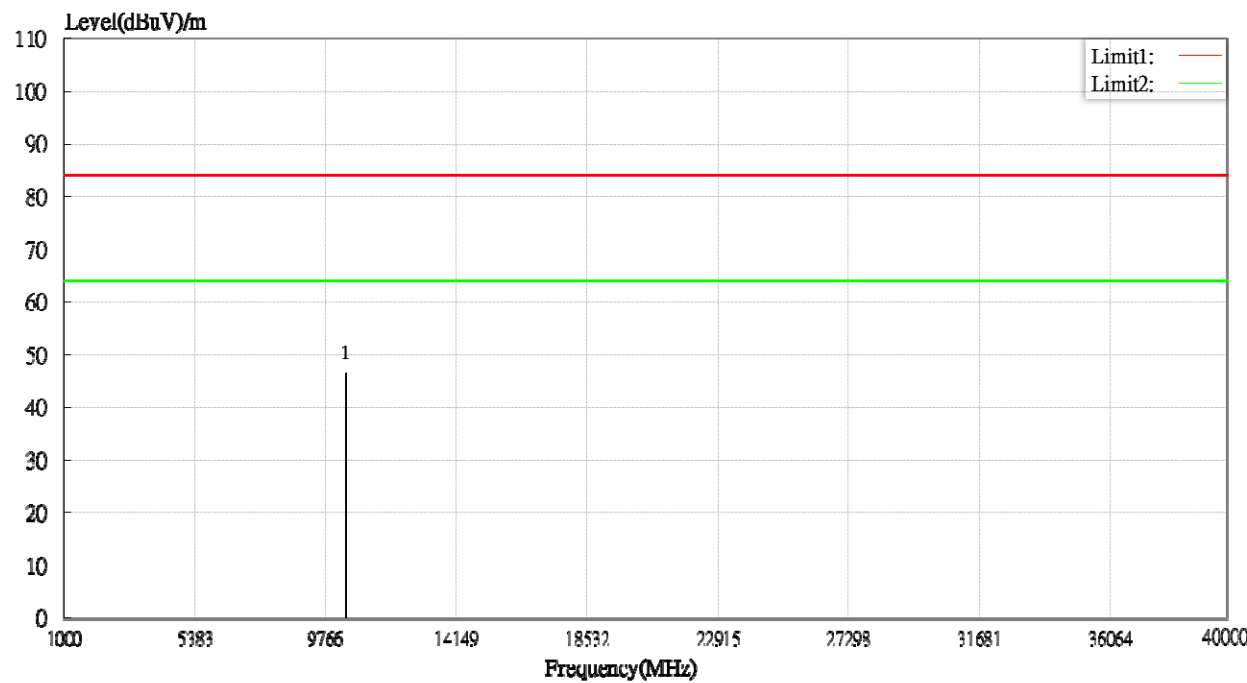


VHT80 mode 5210 MHz Vertical XOR

PK

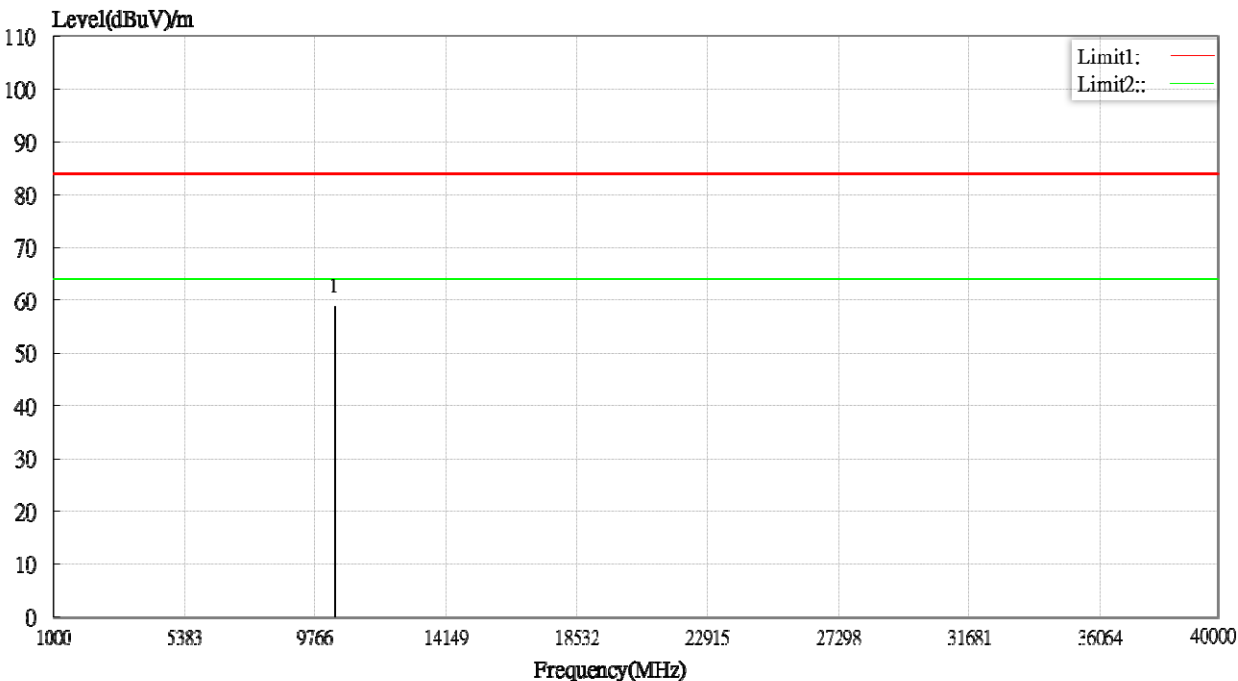


AVG

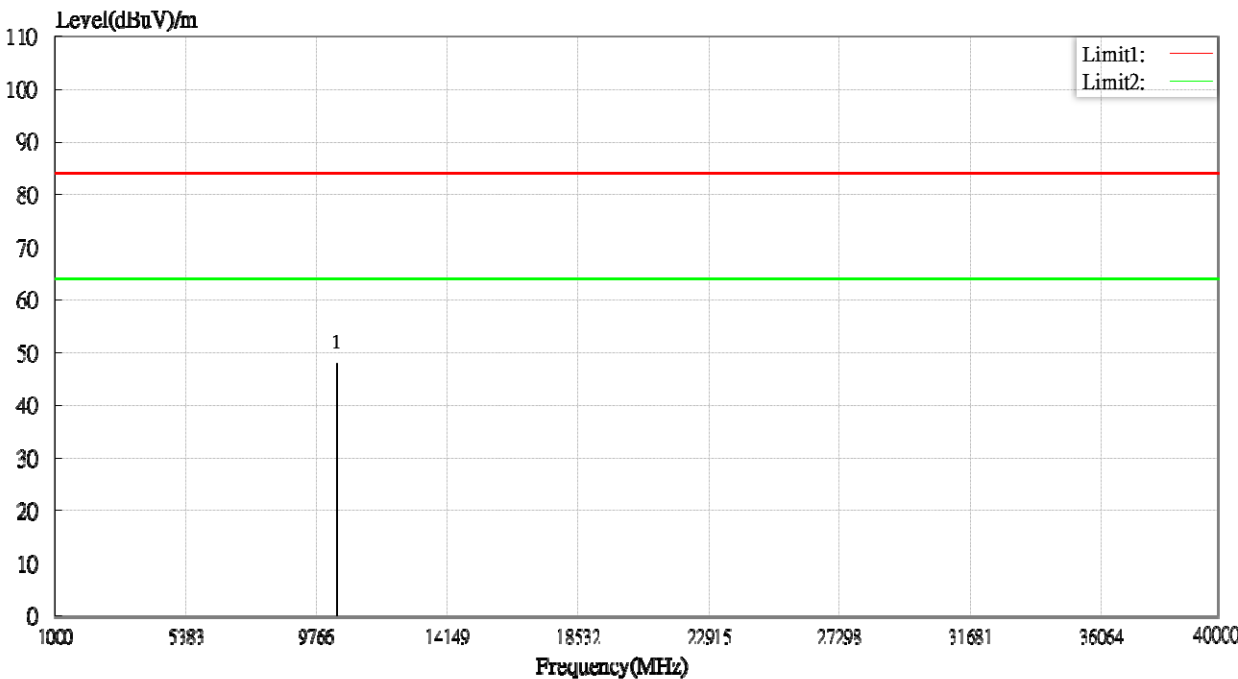


HE80 mode 5210 MHz Horizontal XOR

PK

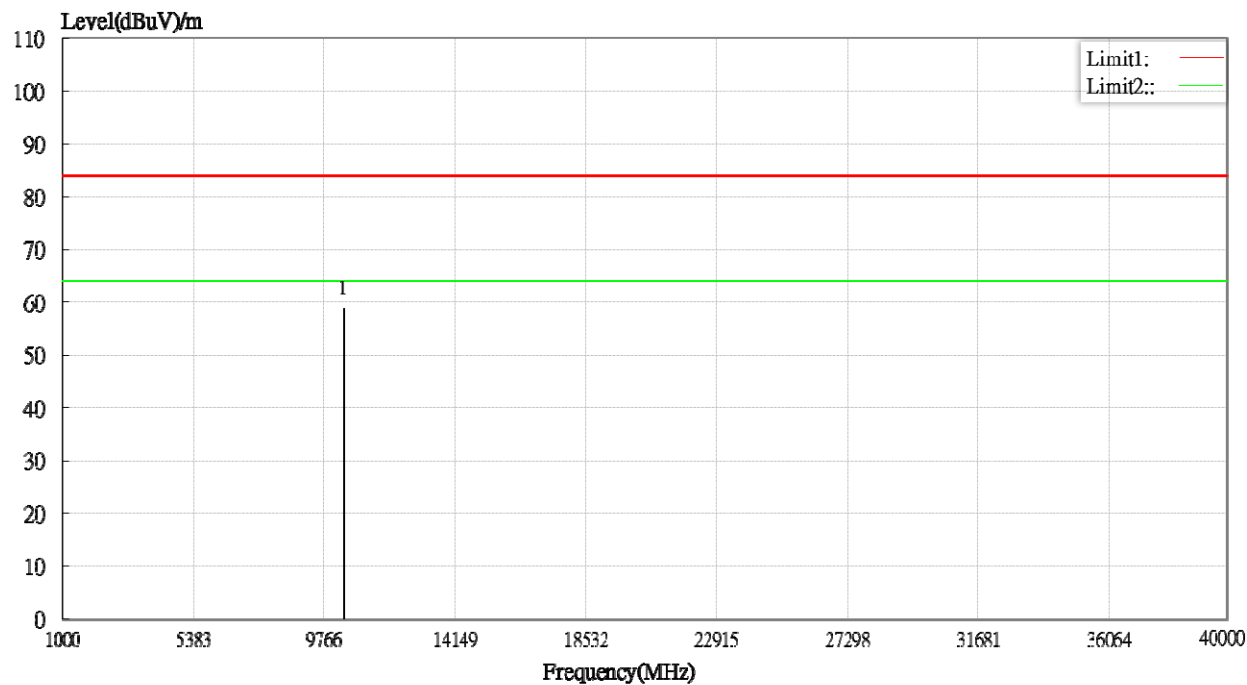


AVG

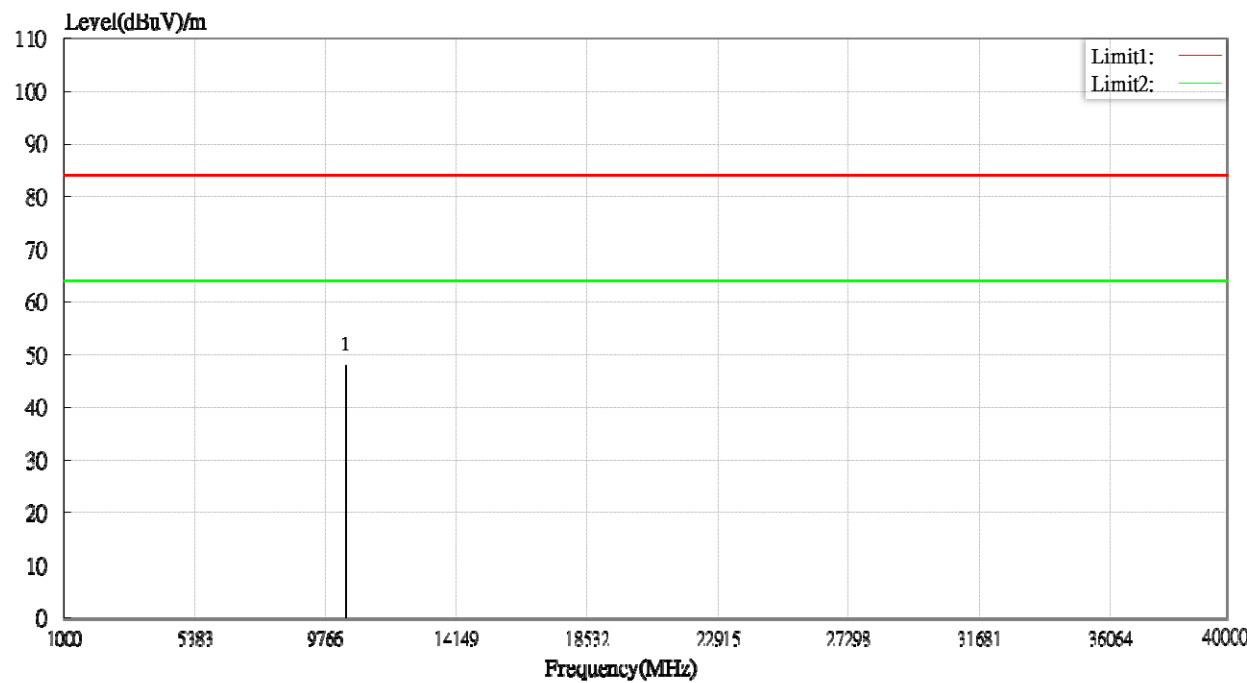


HE80 mode 5210 MHz Vertical XOR

PK

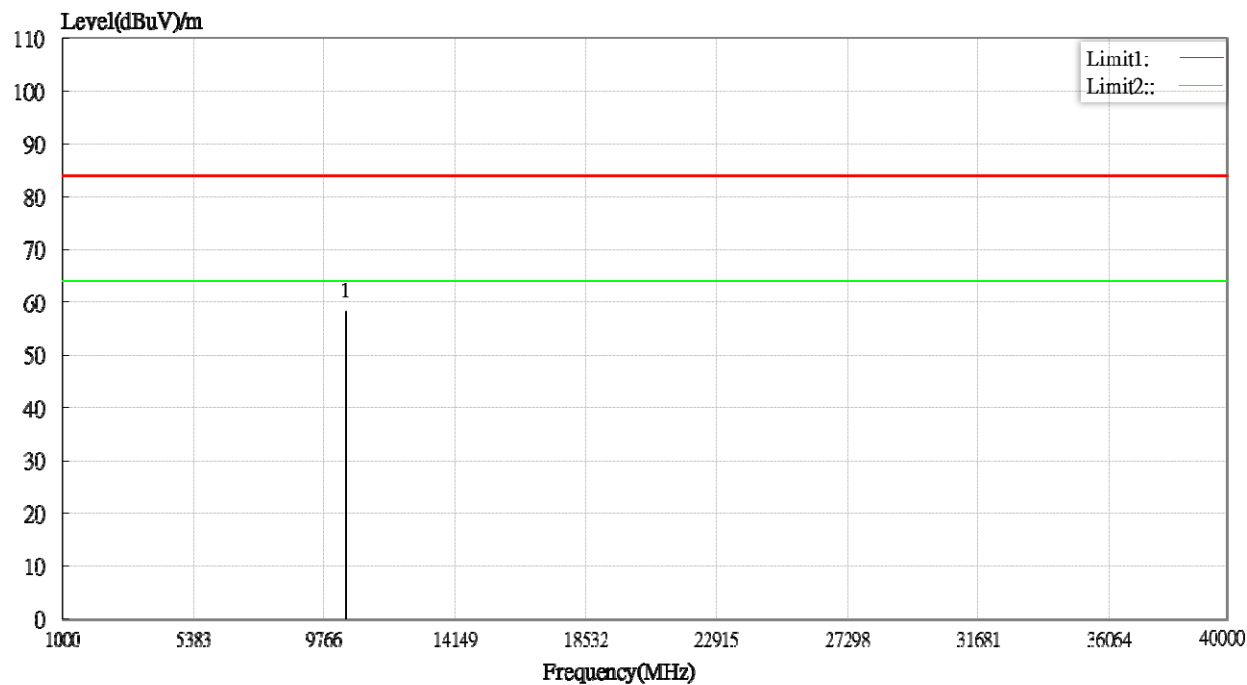


AVG

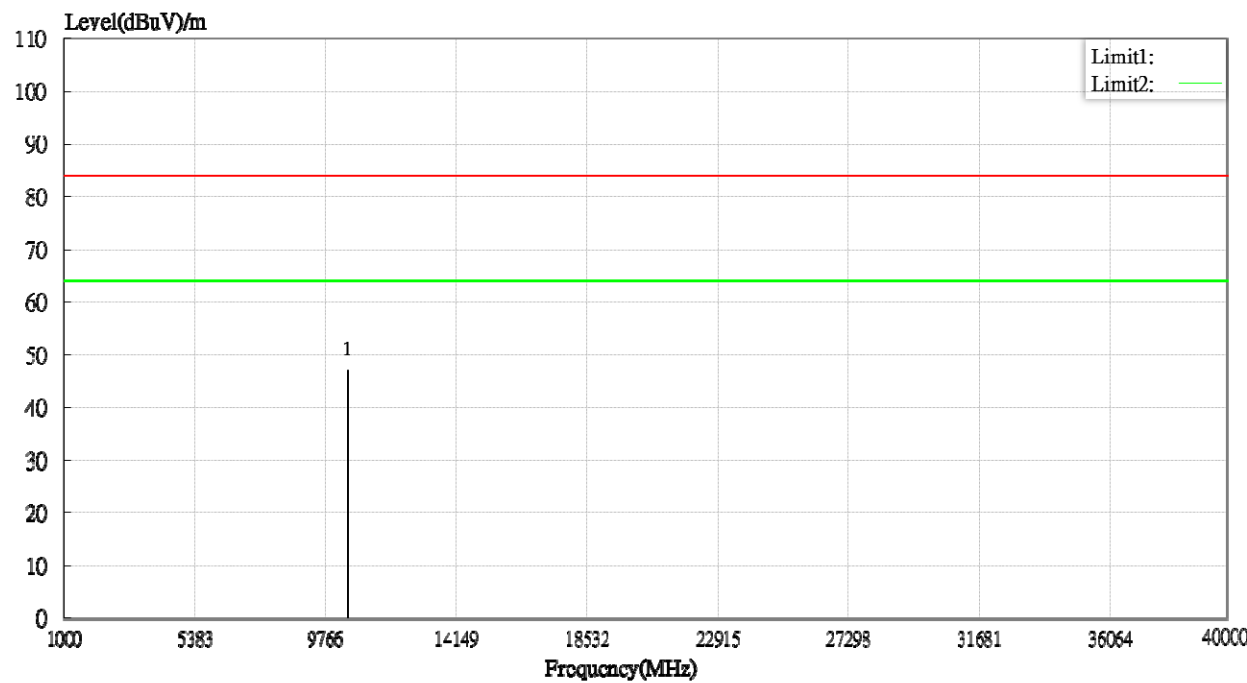


Non HT160 mode 5250 MHz Horizontal XOR

PK

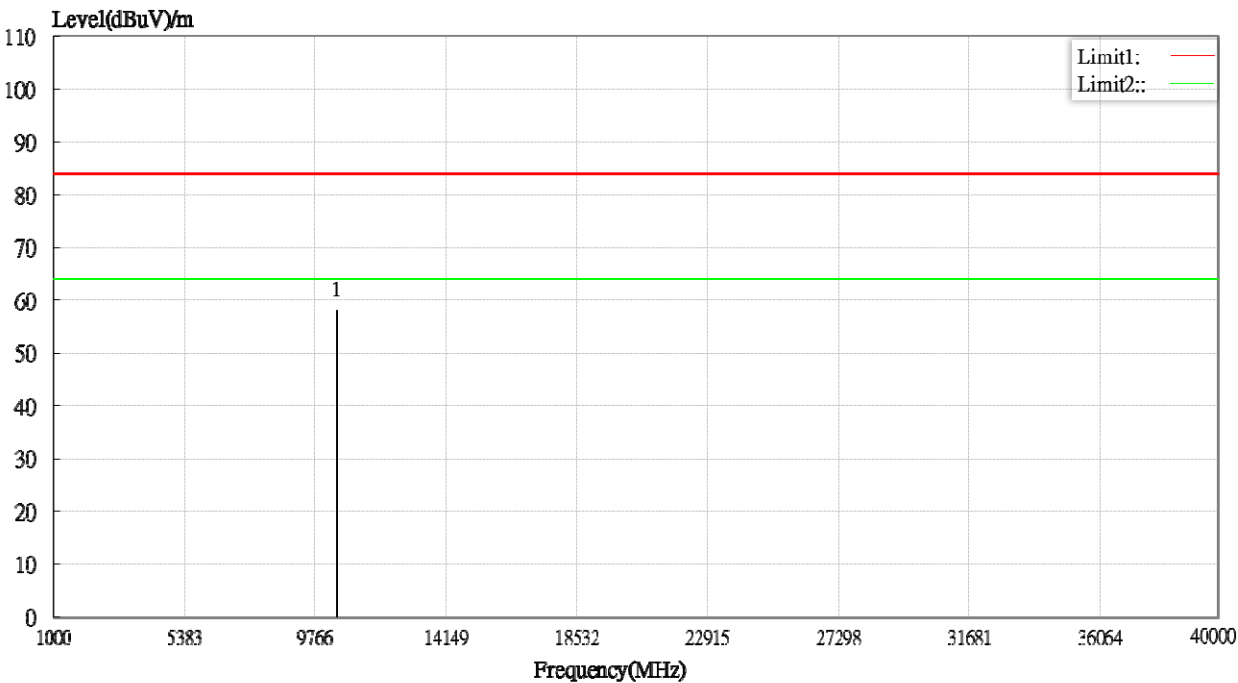


AVG

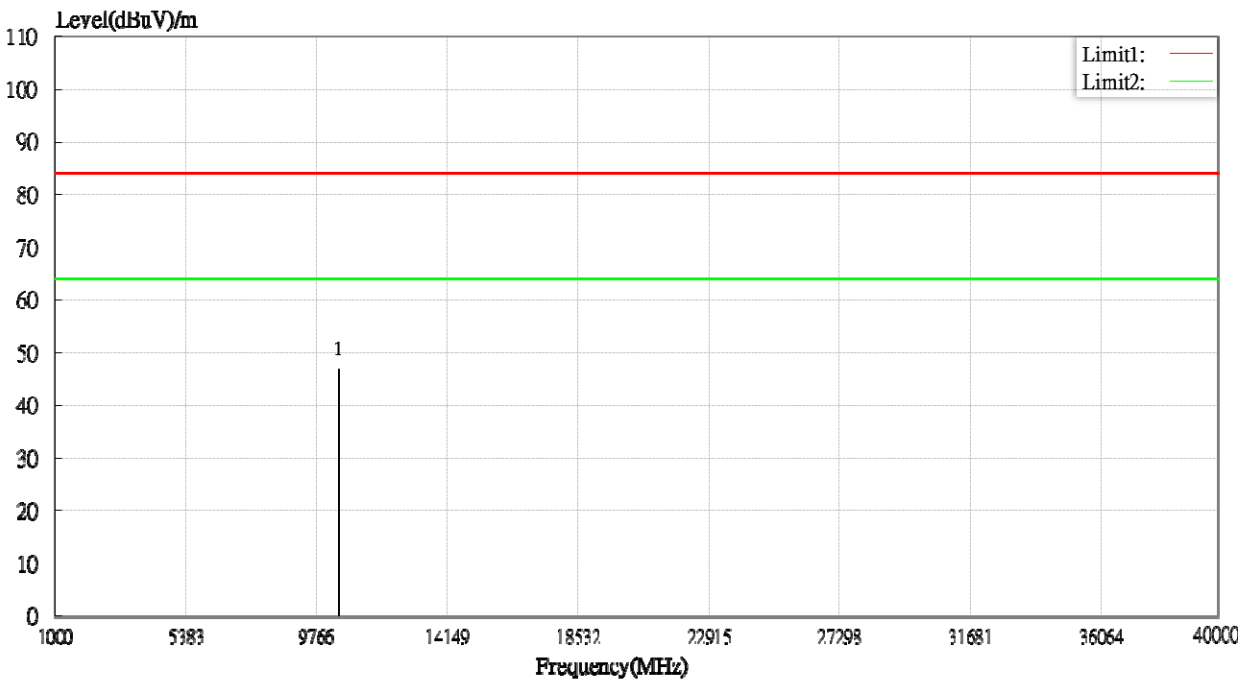


Non HT160 mode 5250 MHz Vertical XOR

PK

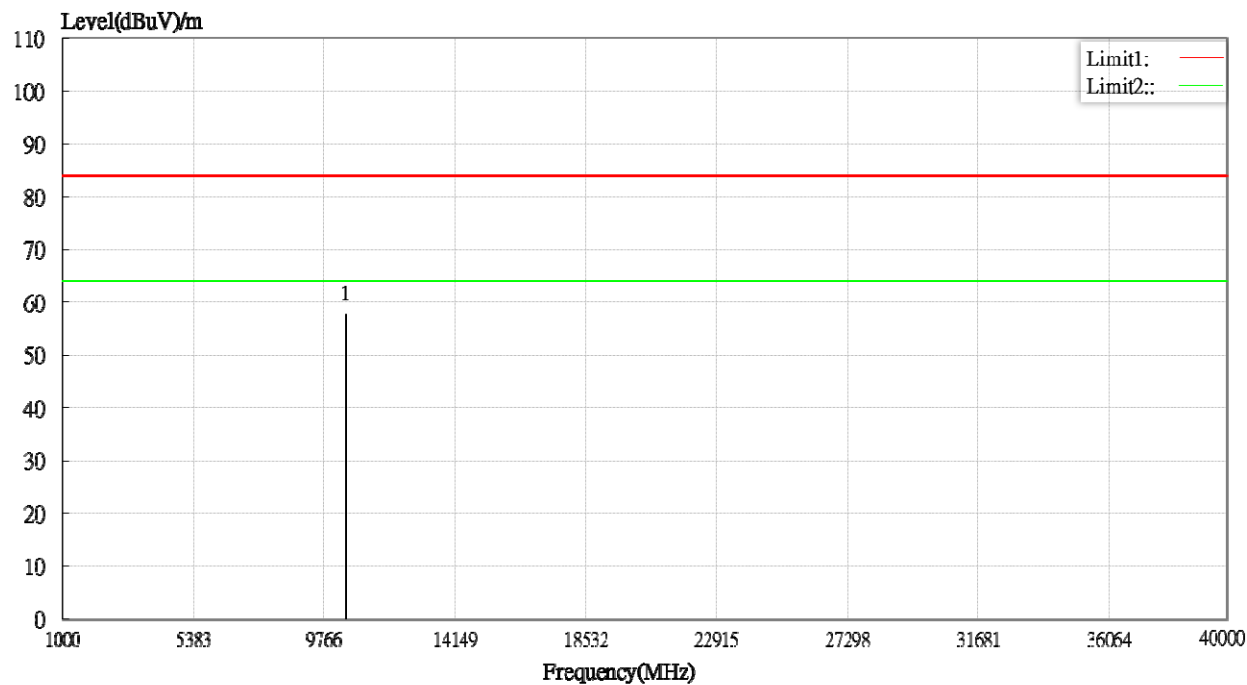


AVG

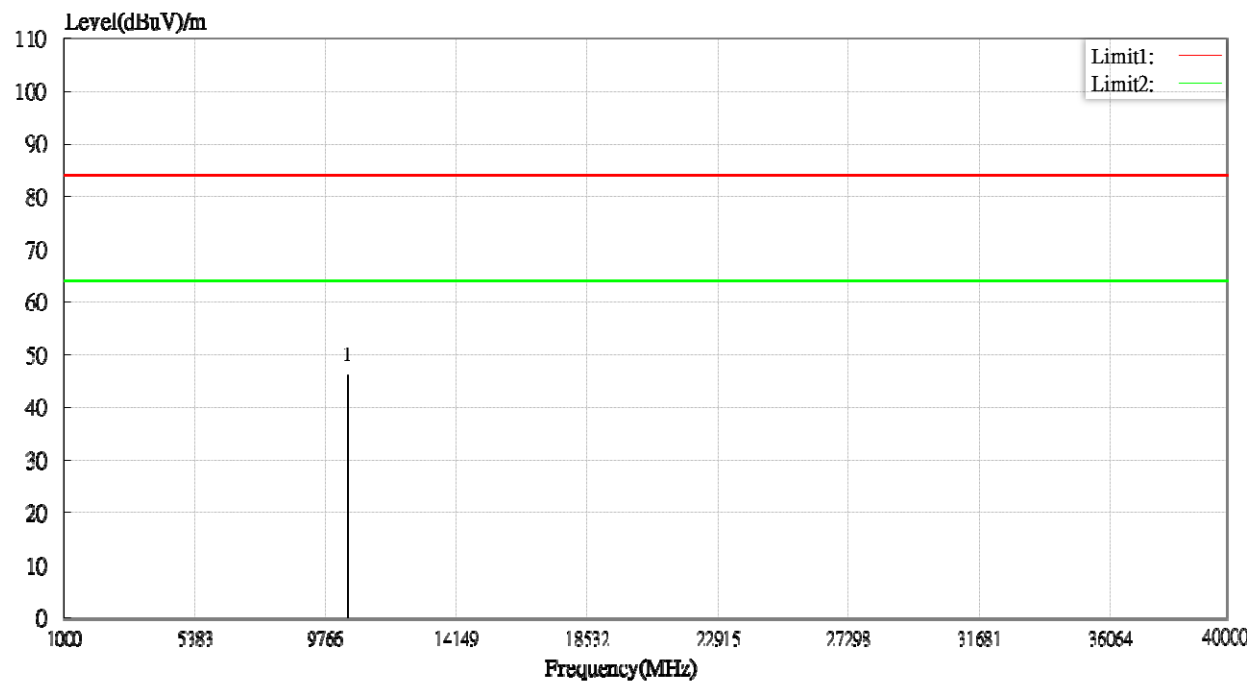


VHT160 mode 5250 MHz Horizontal XOR

PK

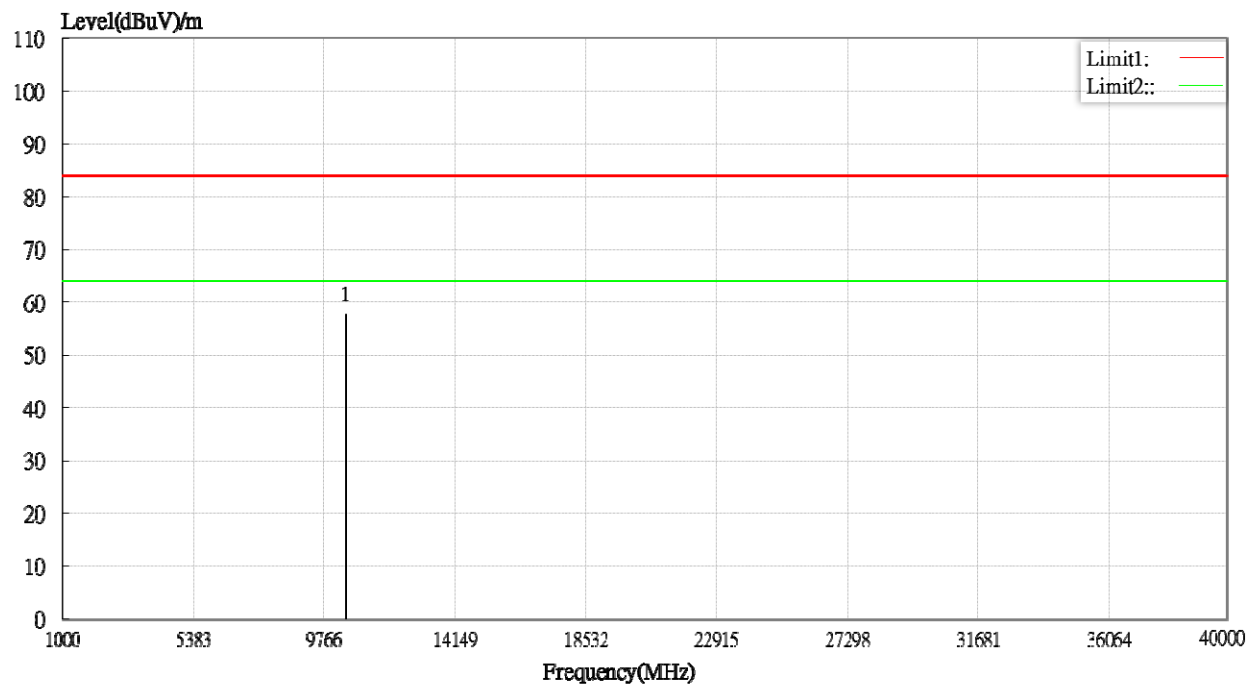


AVG

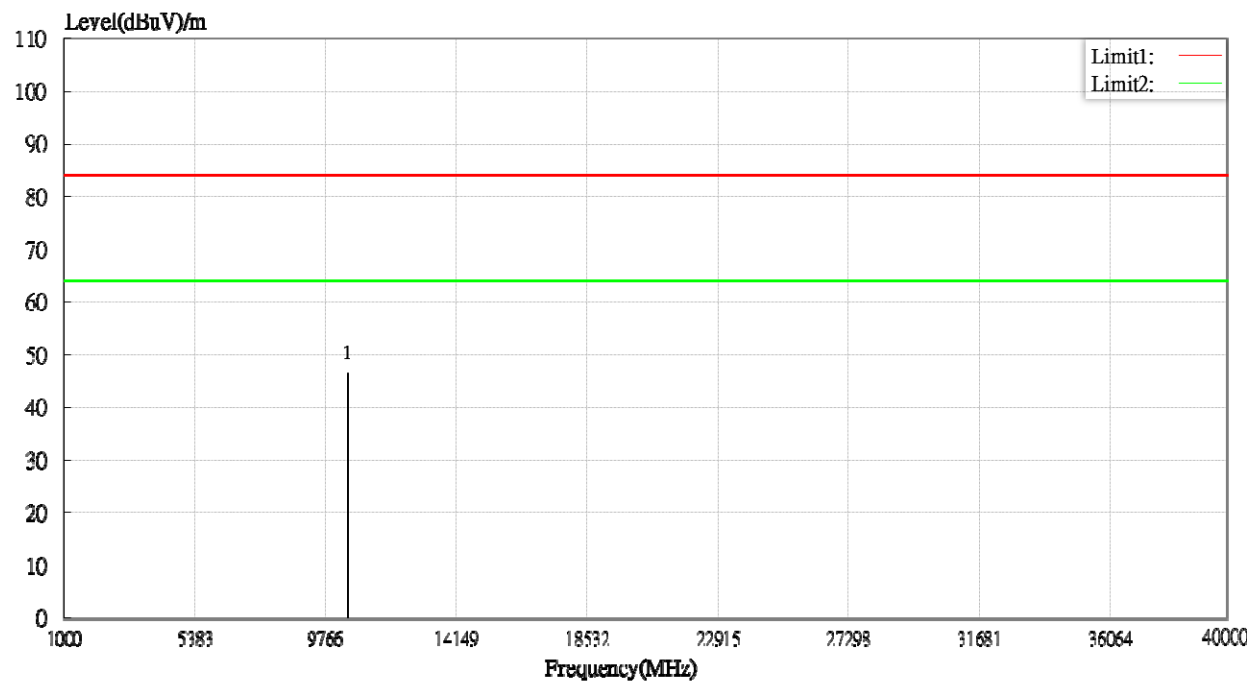


VHT160 mode 5250 MHz Vertical XOR

PK

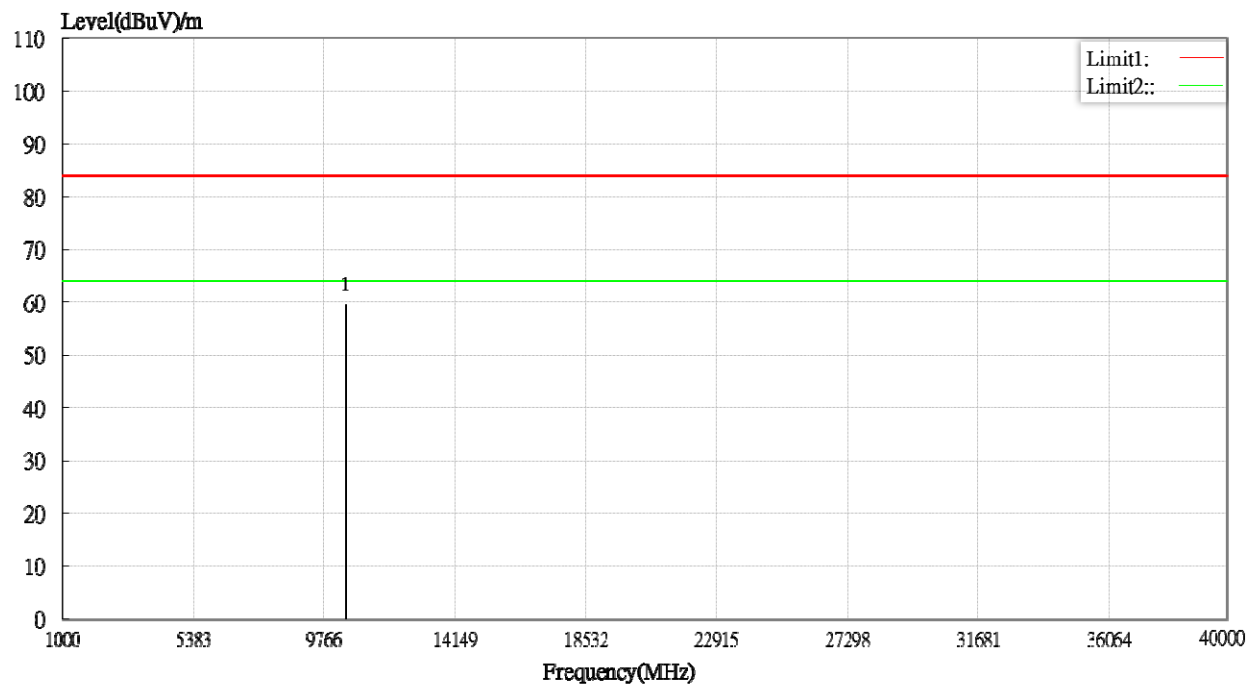


AVG

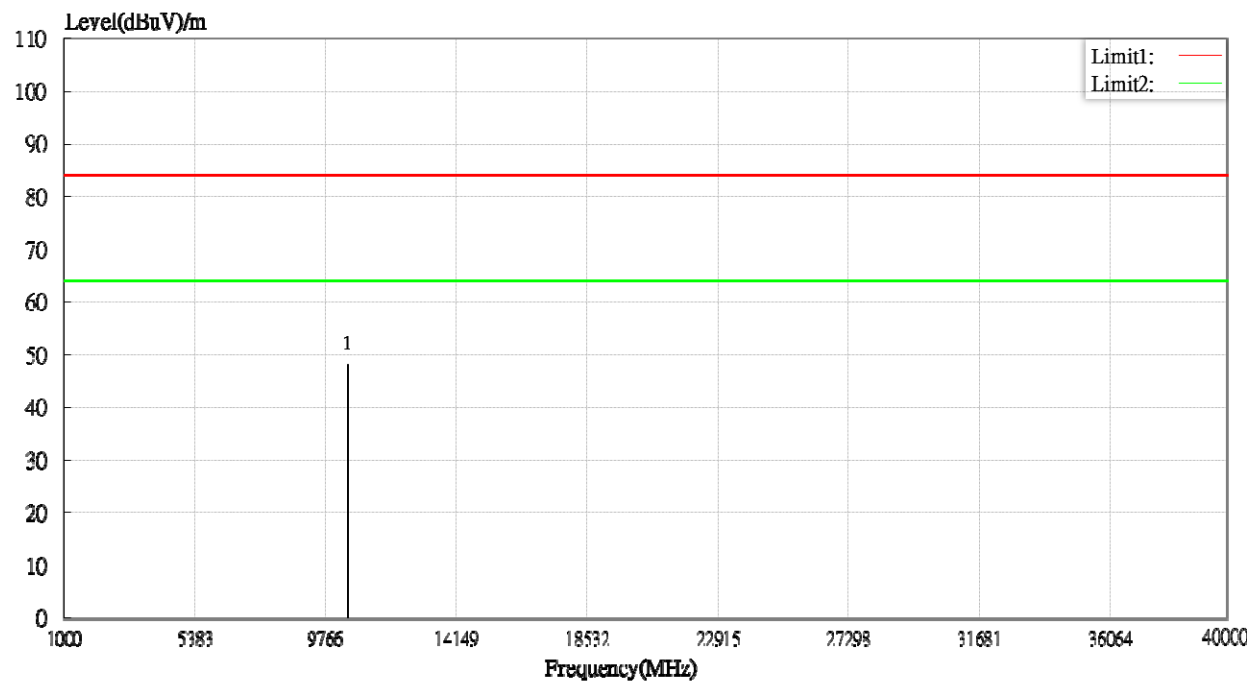


HE160 mode 5250 MHz Horizontal XOR

PK

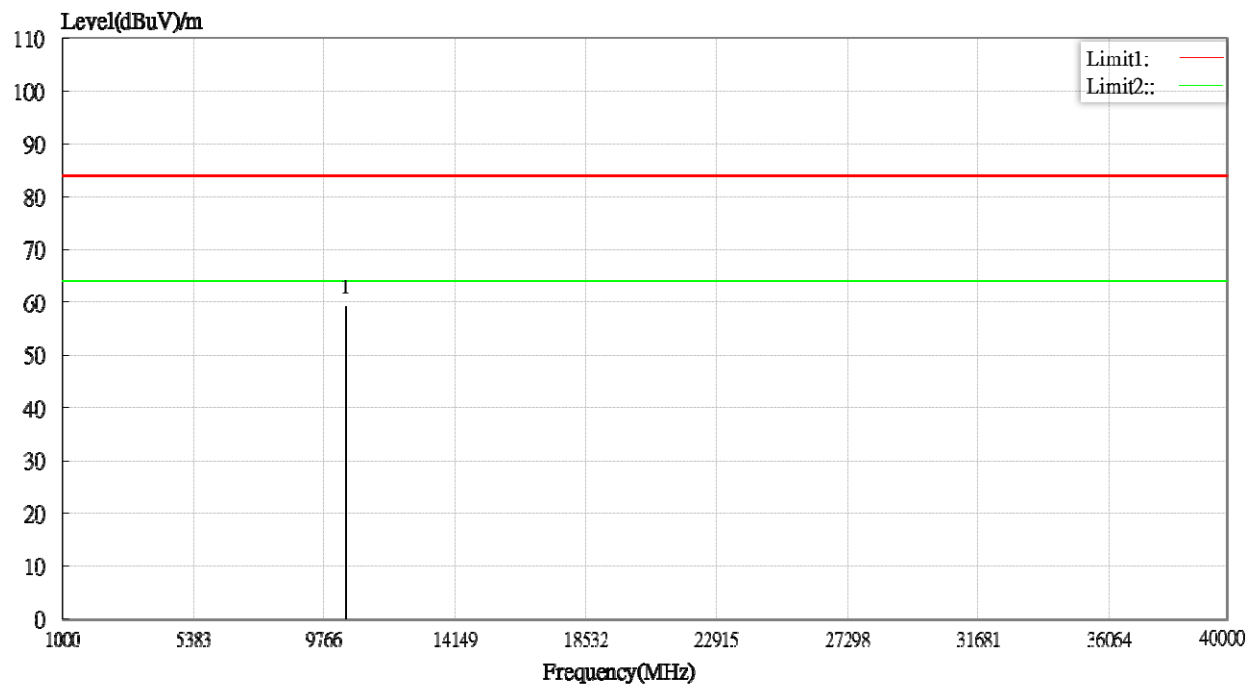


AVG

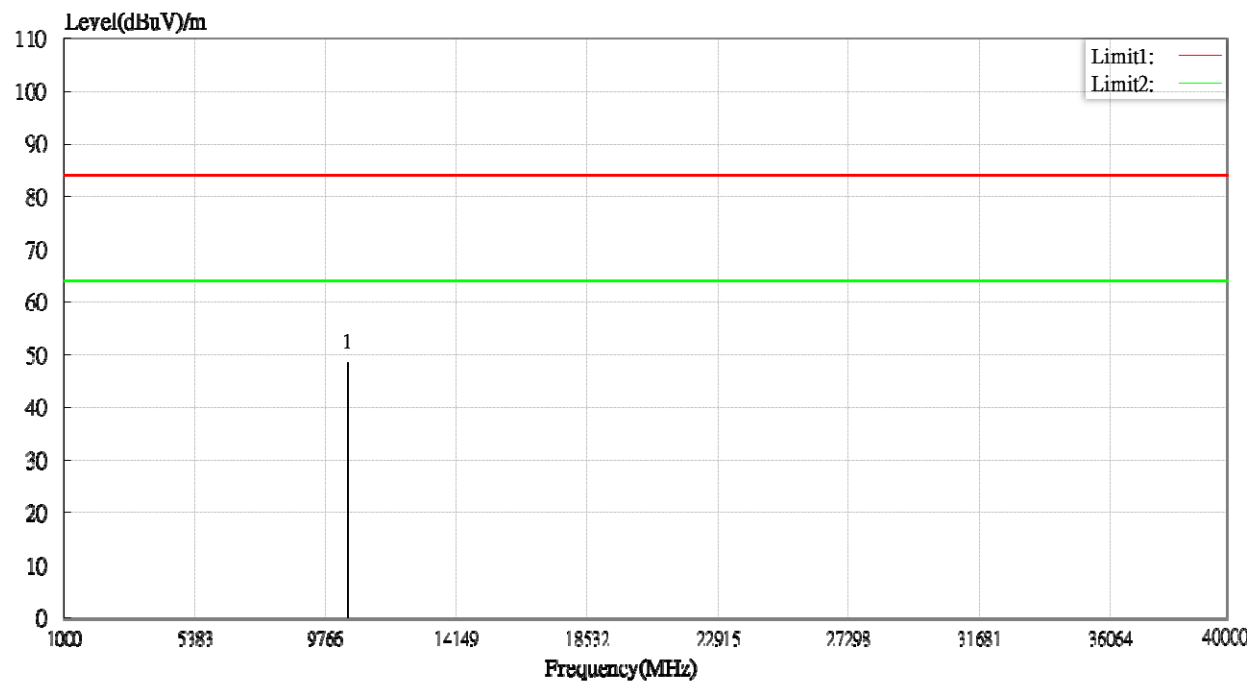


HE160 mode 5250 MHz Vertical XOR

PK

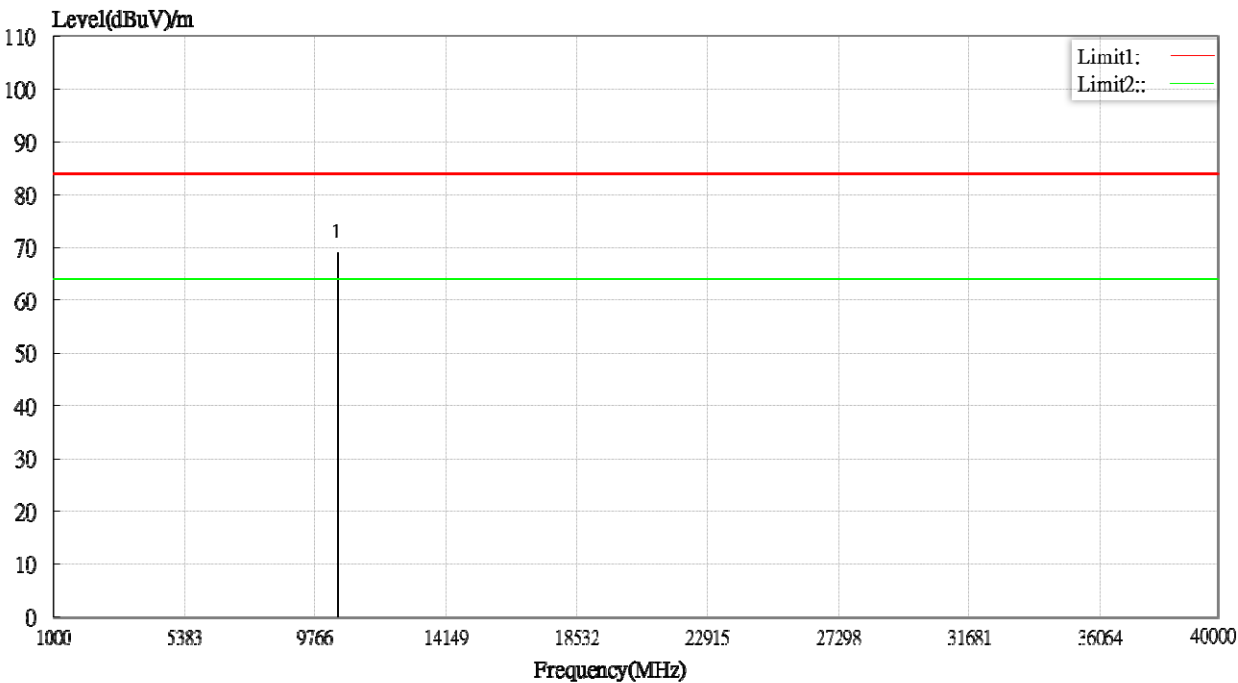


AVG

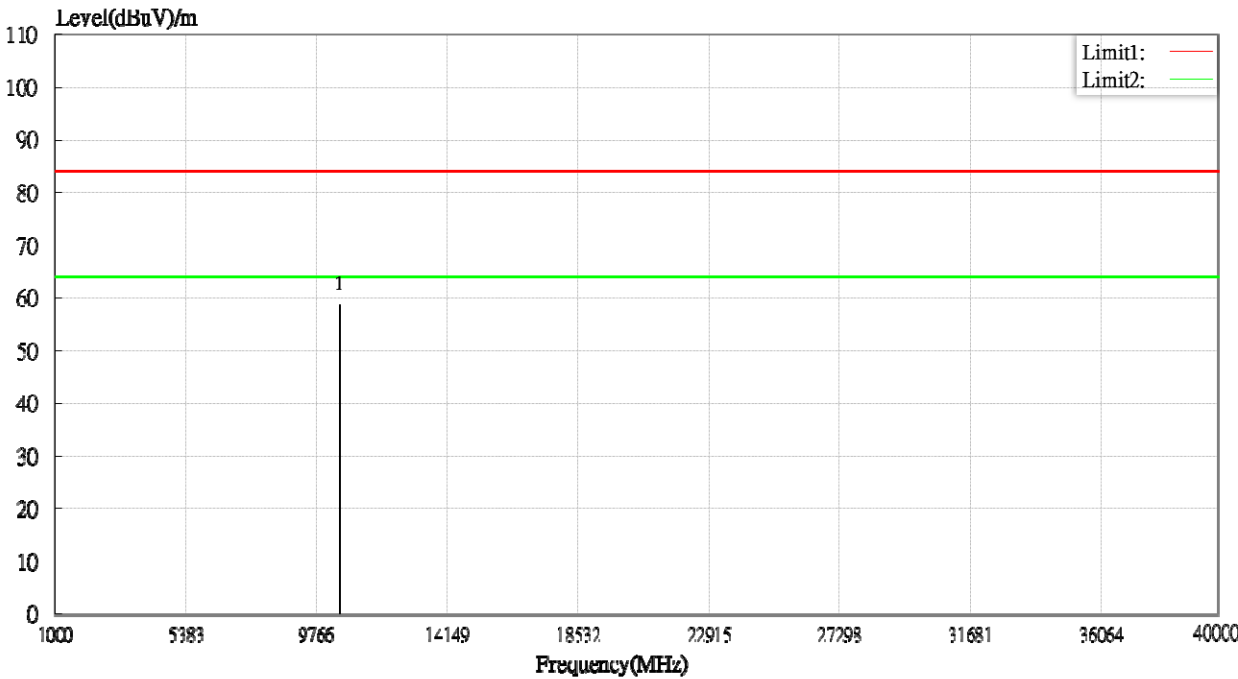


Non HT20 mode 5260 MHz Horizontal XOR

PK

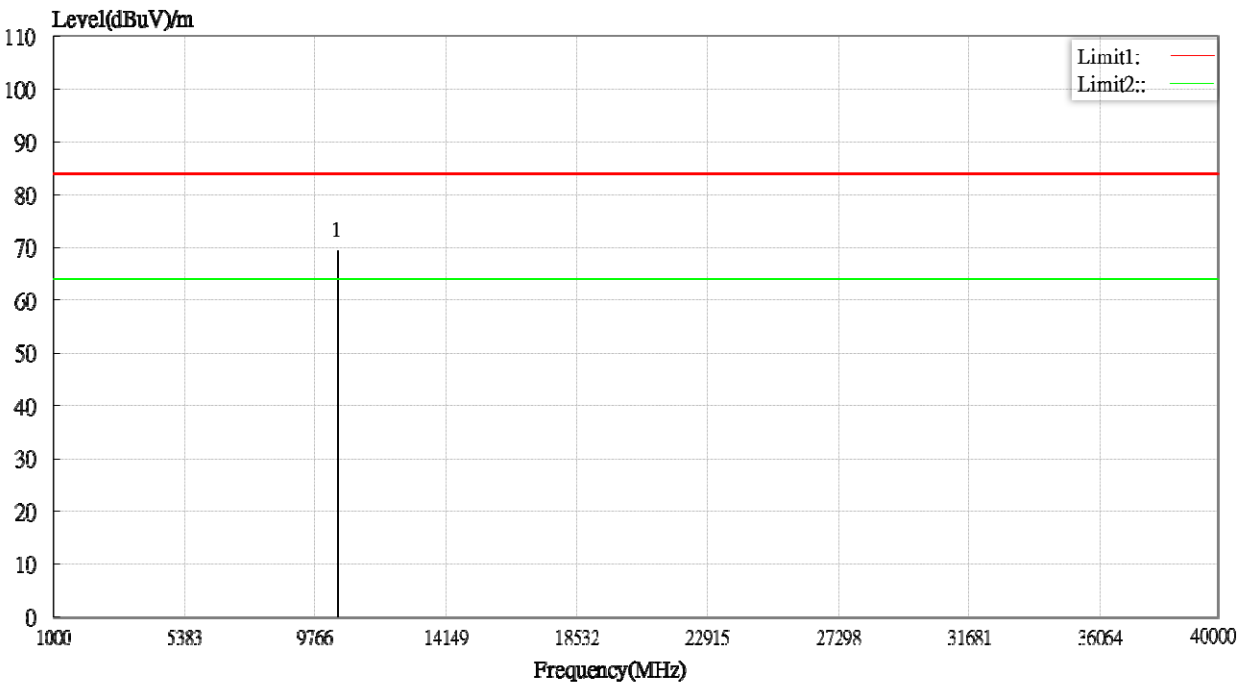


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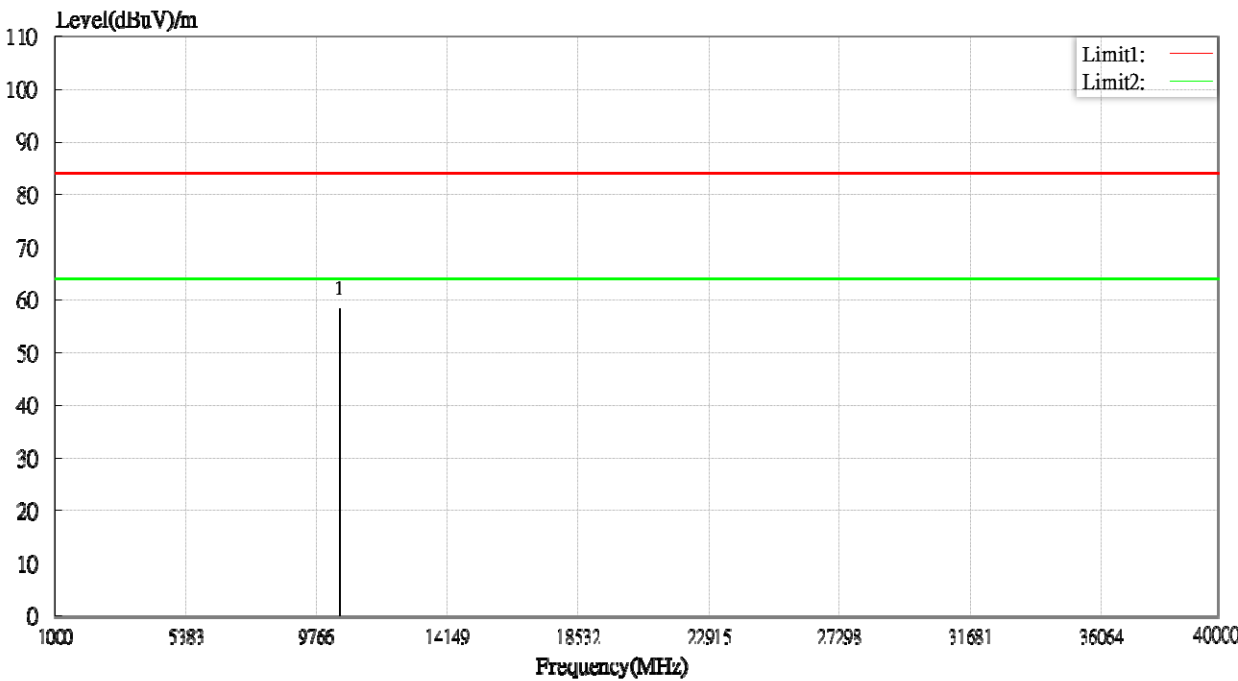


Non HT20 mode 5260 MHz Vertical XOR

PK

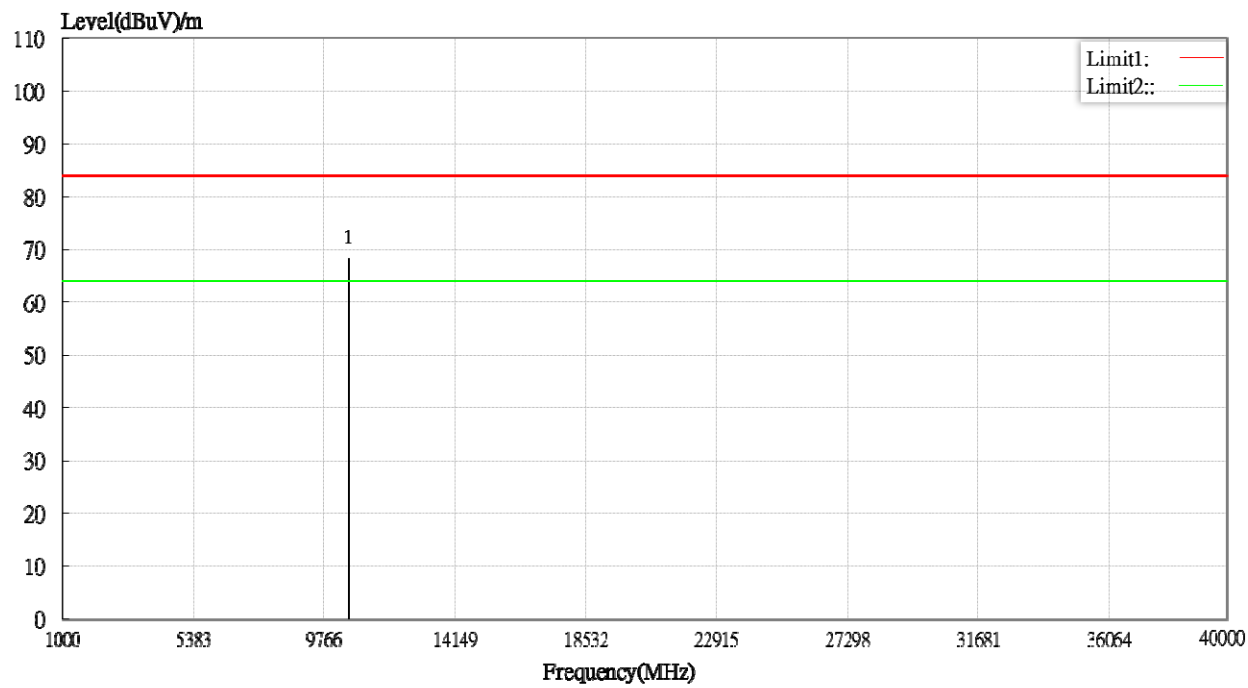


AVG

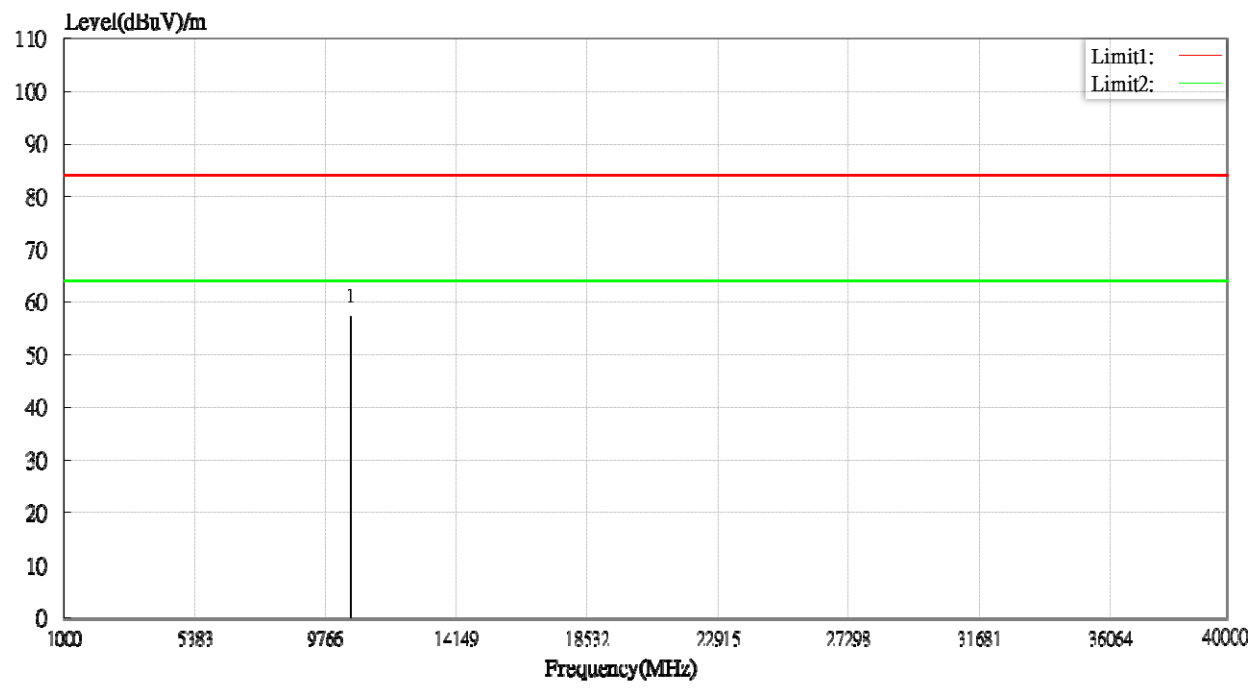


Non HT20 mode 5300 MHz Horizontal XOR

PK

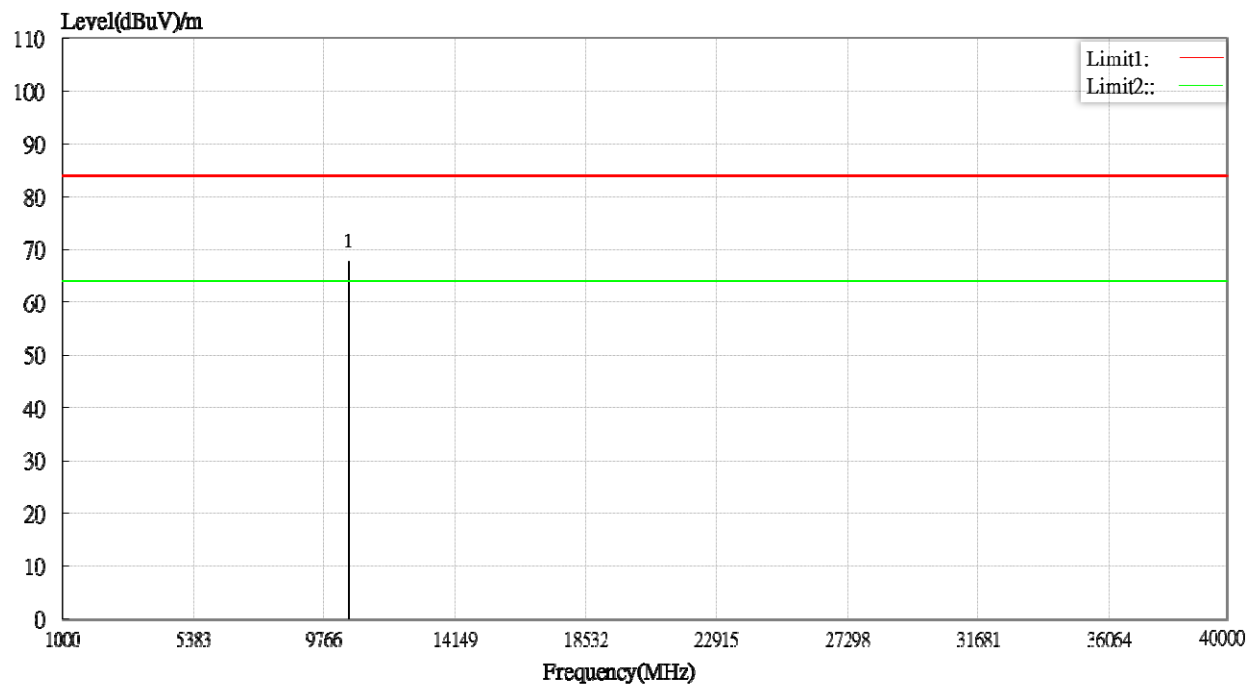


AVG

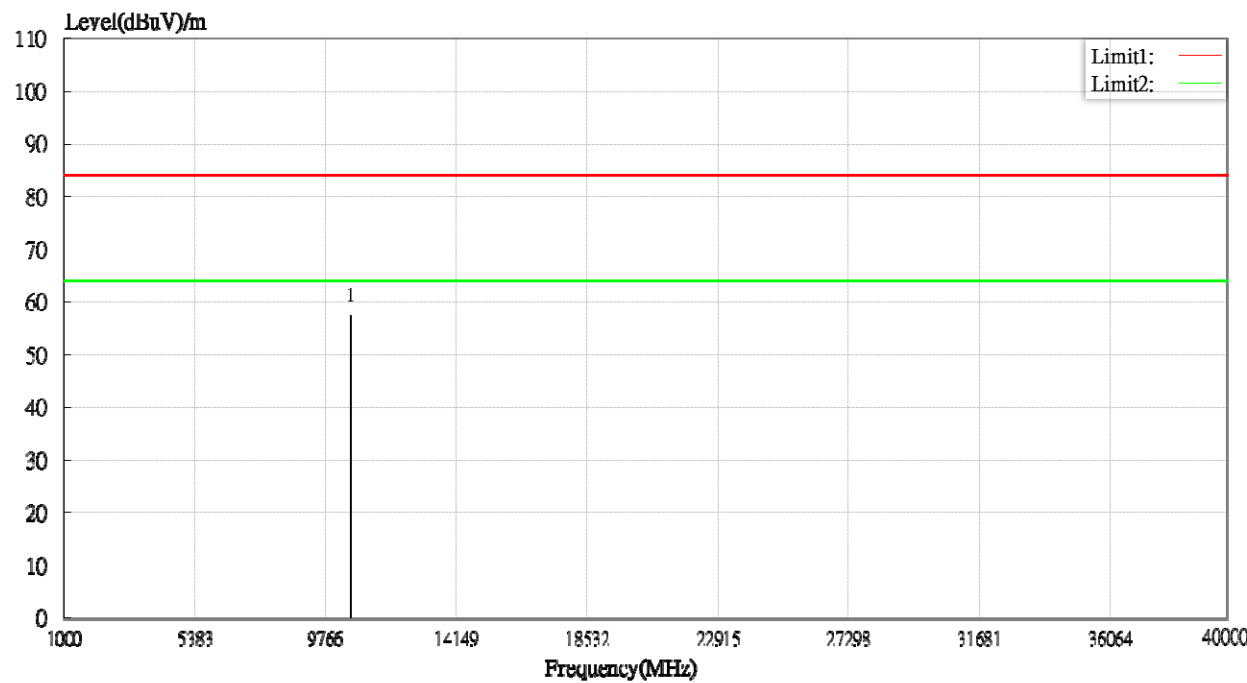


Non HT20 mode 5300 MHz Vertical XOR

PK

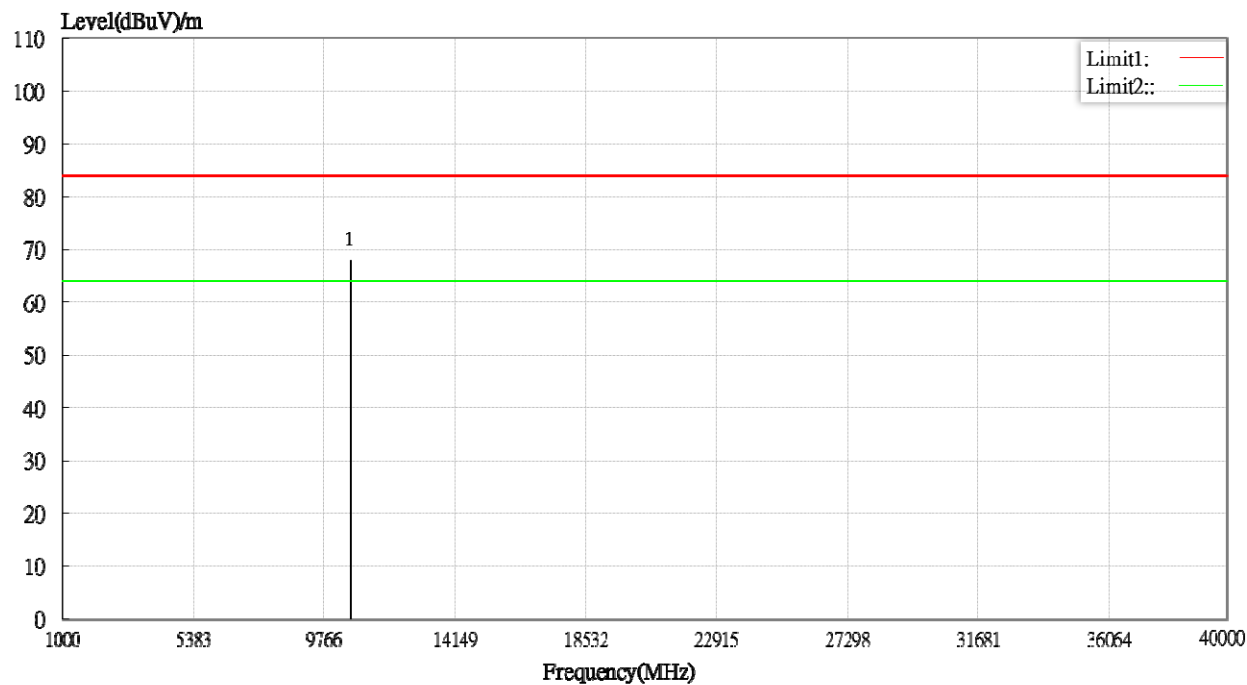


AVG

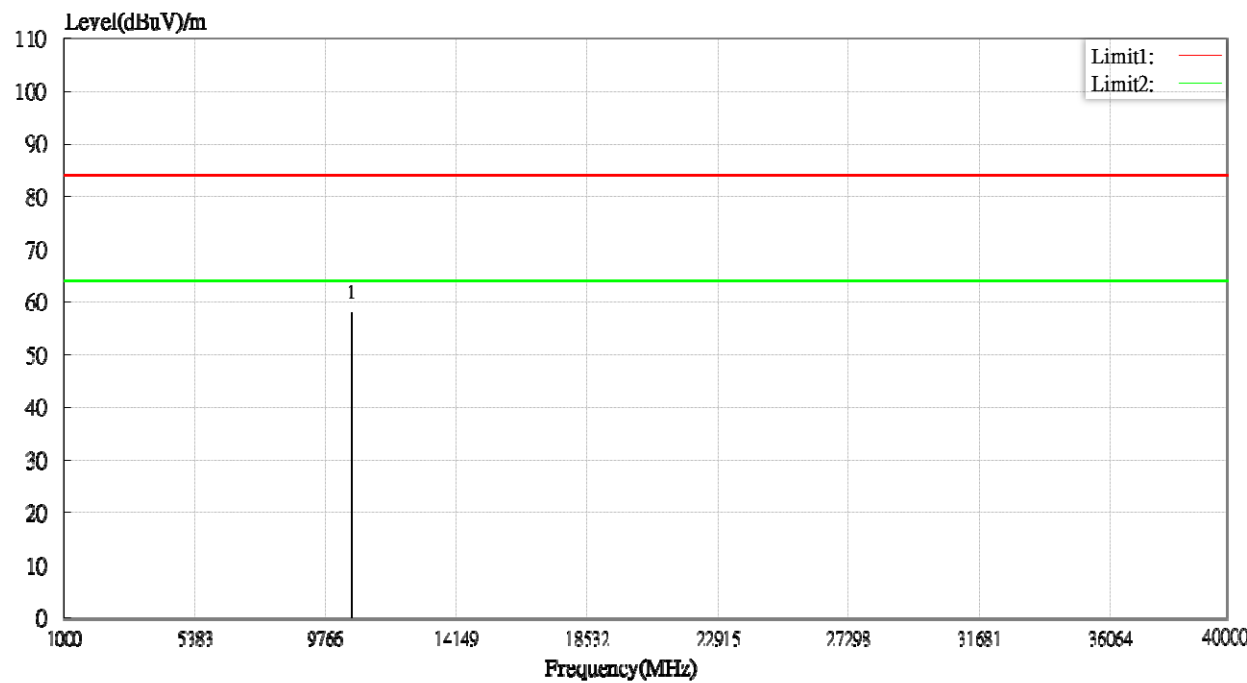


Non HT20 mode 5320 MHz Horizontal XOR

PK

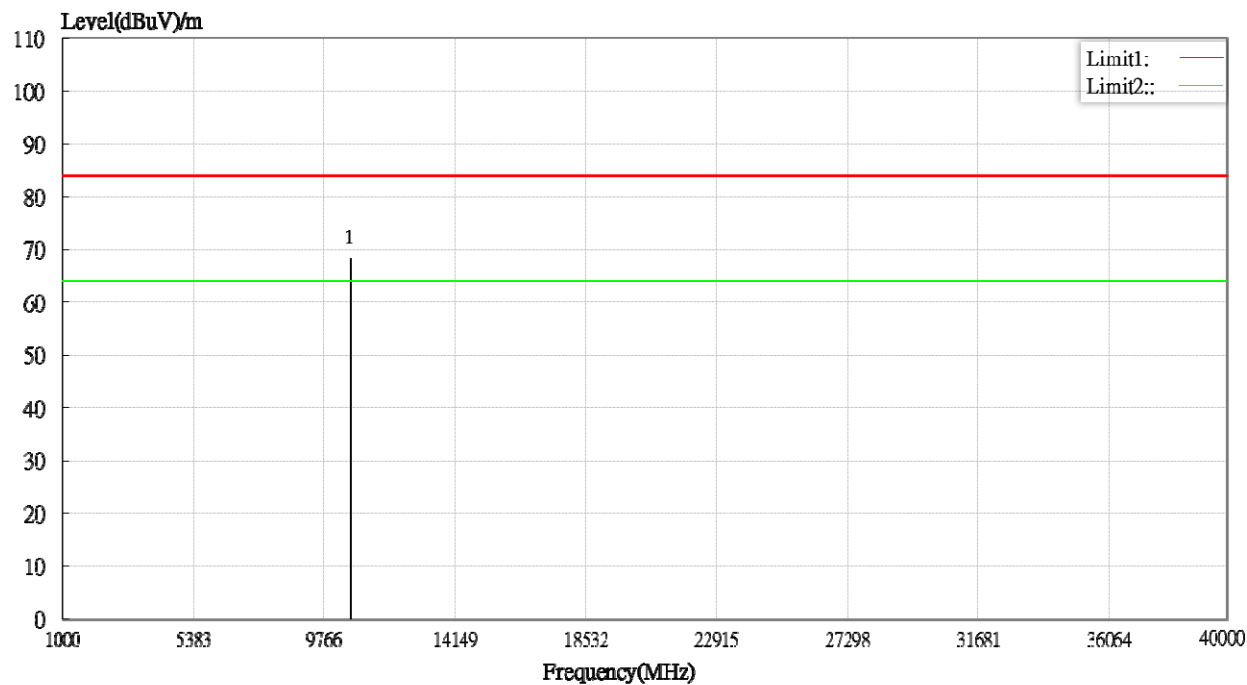


AVG

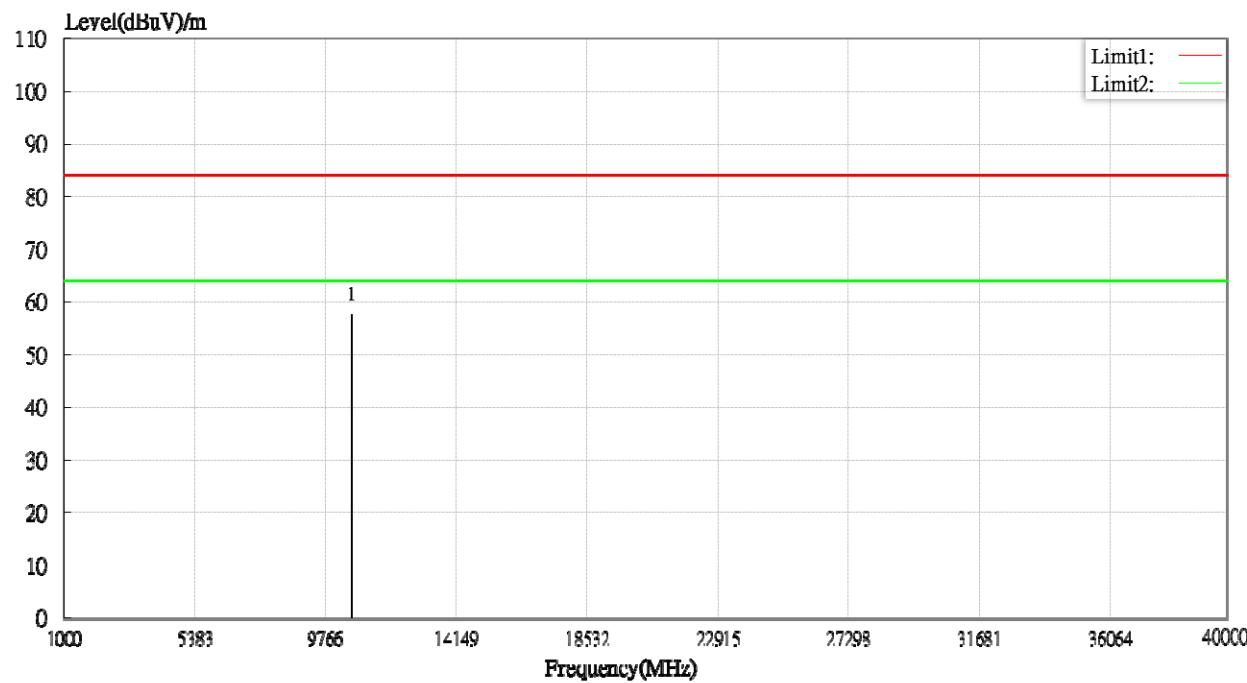


Non HT20 mode 5320 MHz Vertical XOR

PK

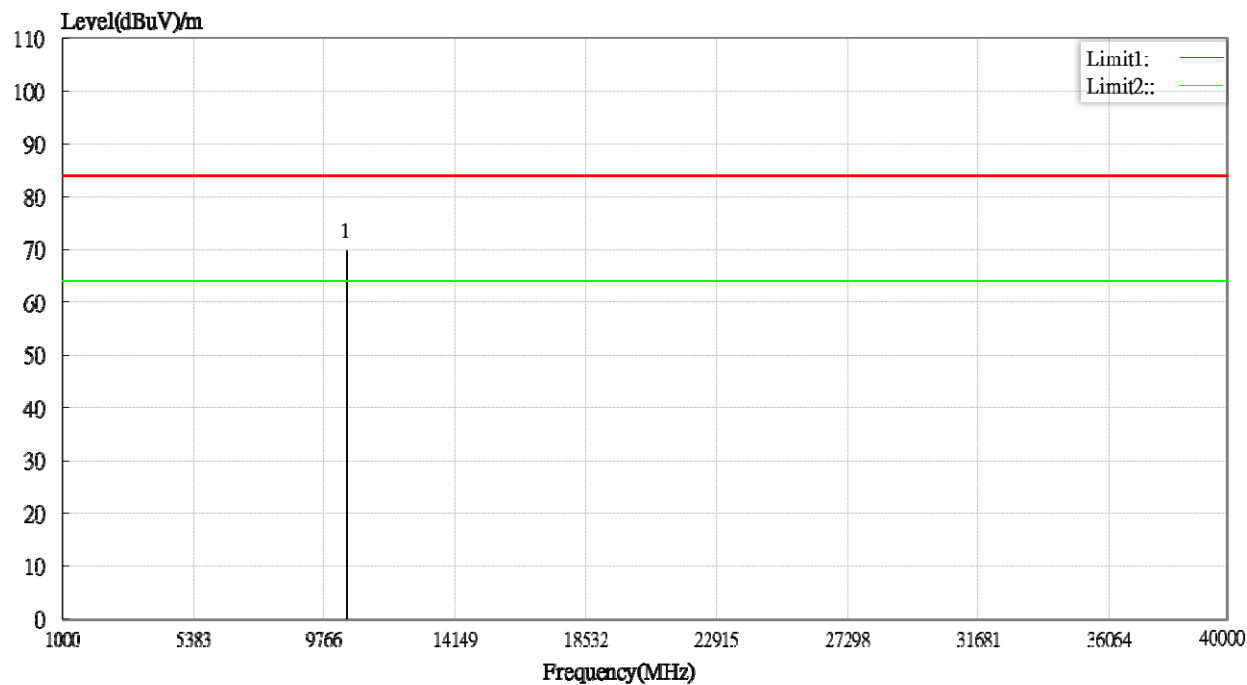


AVG

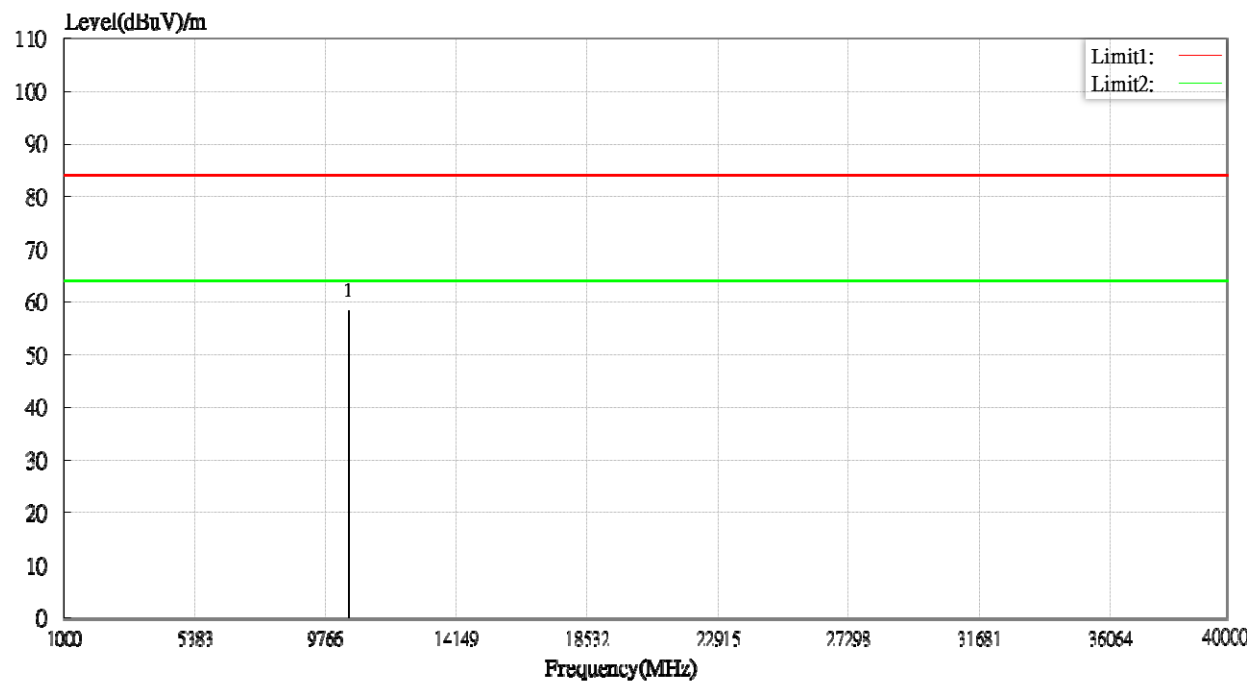


HT/VHT20 mode 5260 MHz Horizontal XOR

PK

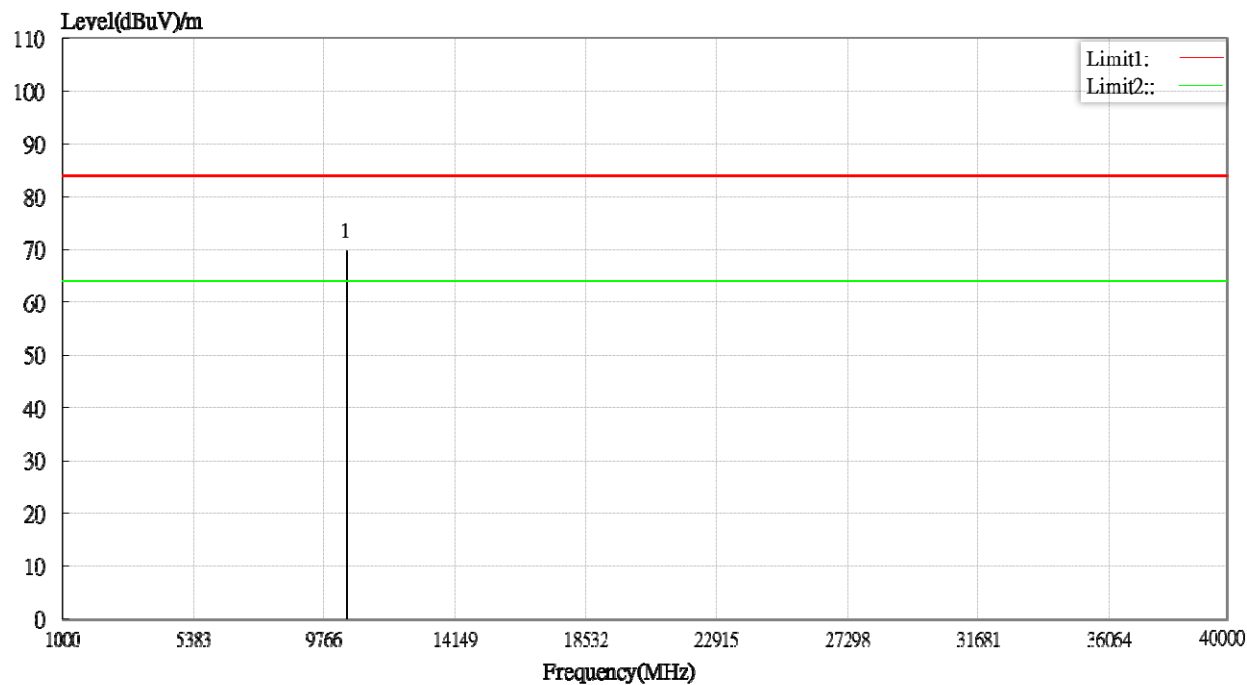


AVG

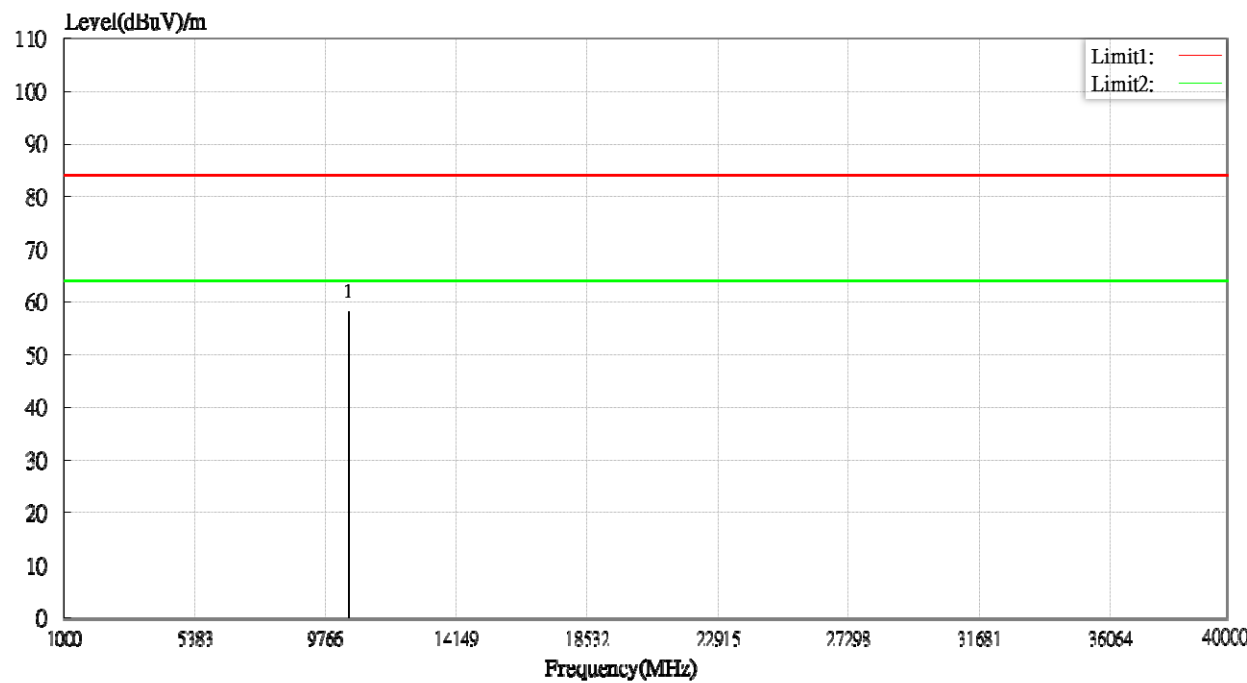


HT/VHT20 mode 5260 MHz Vertical XOR

PK

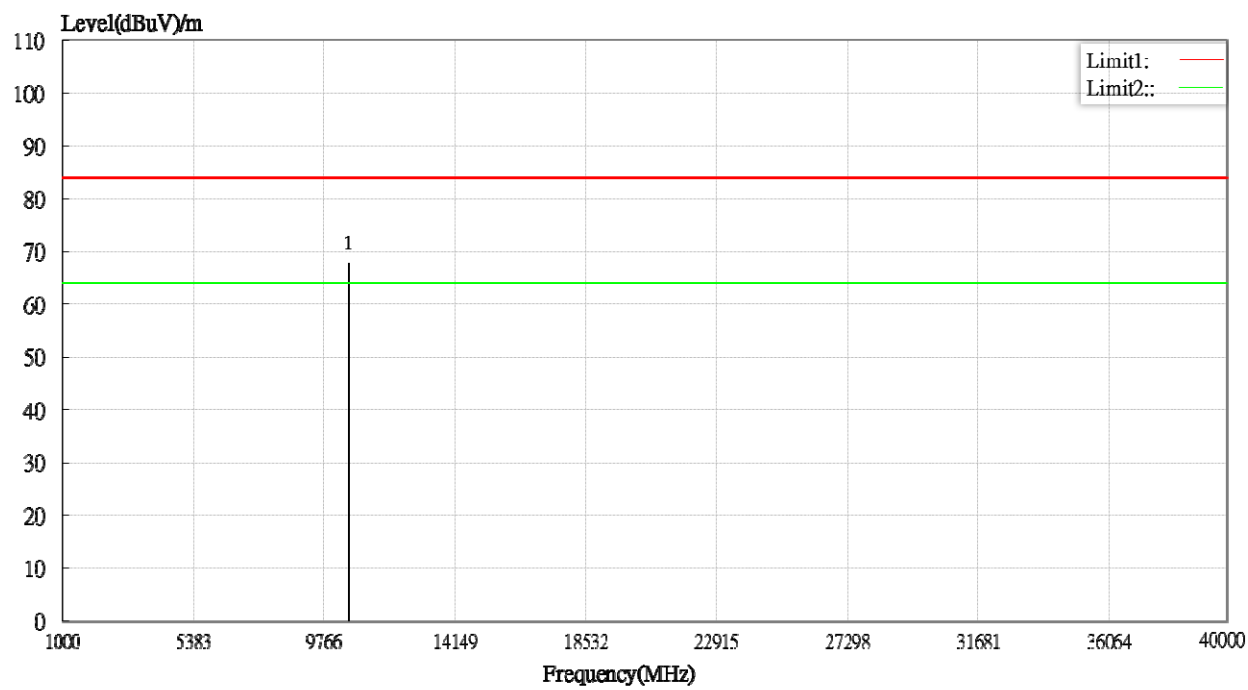


AVG

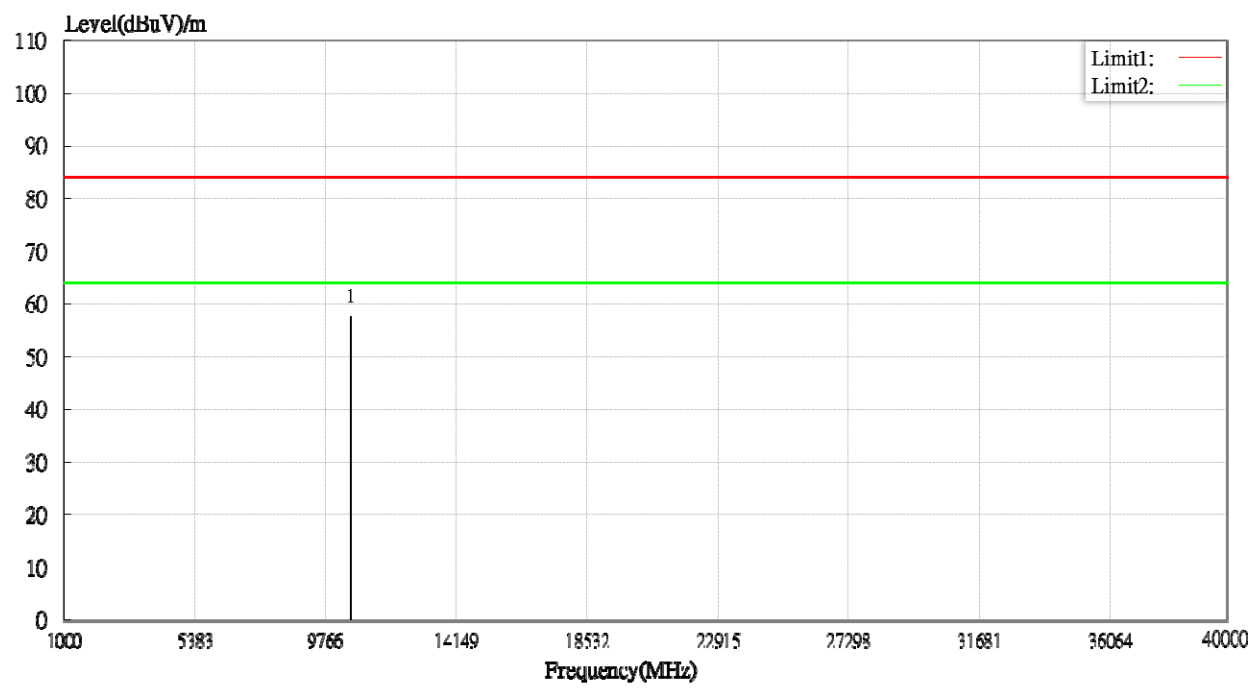


HT/VHT20 mode 5300 MHz Horizontal XOR

PK

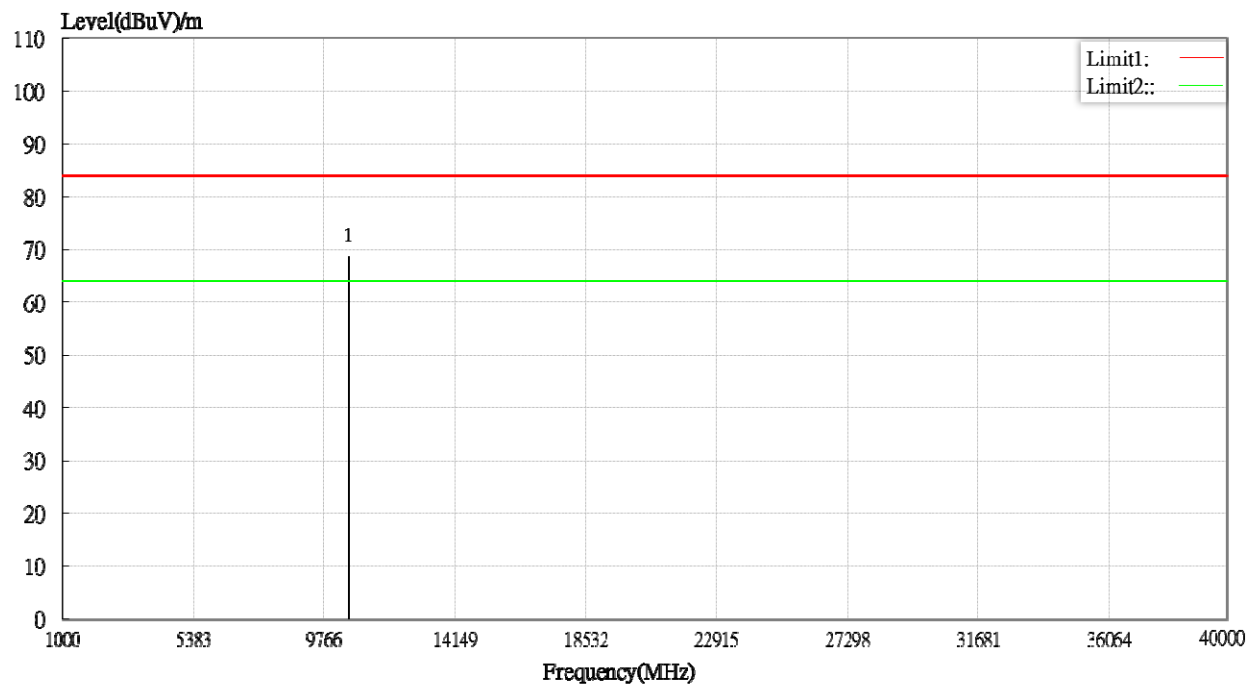


AVG

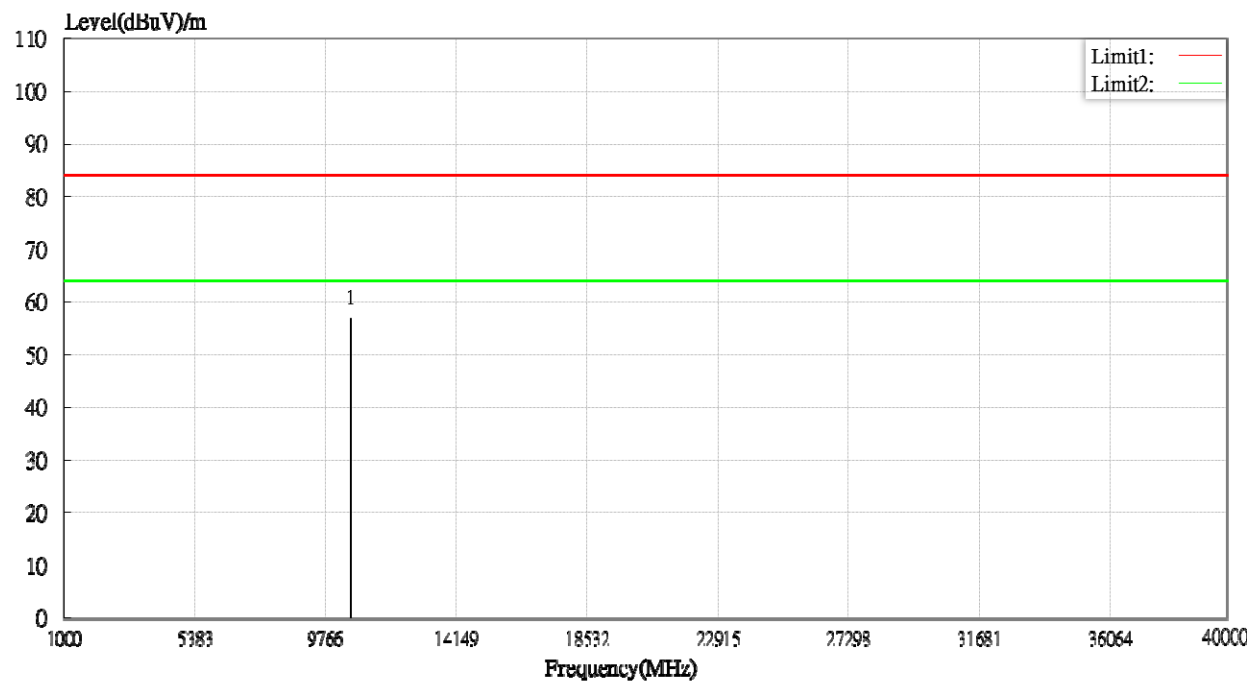


HT/VHT20 mode 5300 MHz Vertical XOR

PK

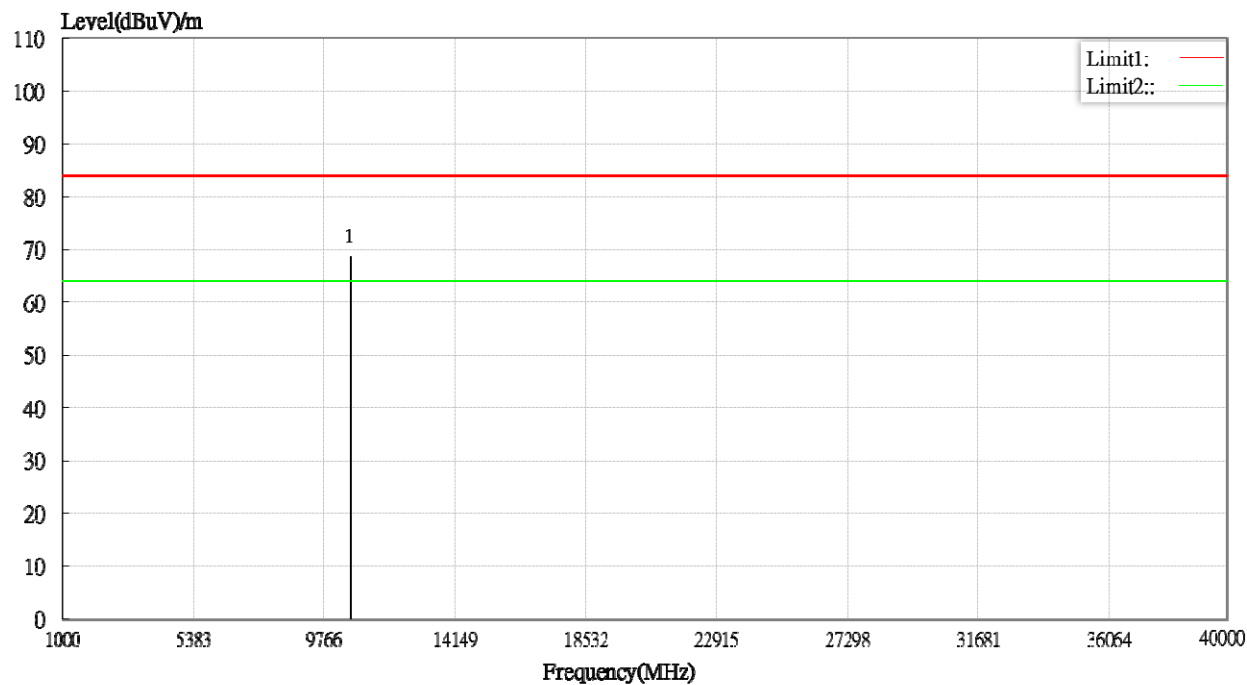


AVG

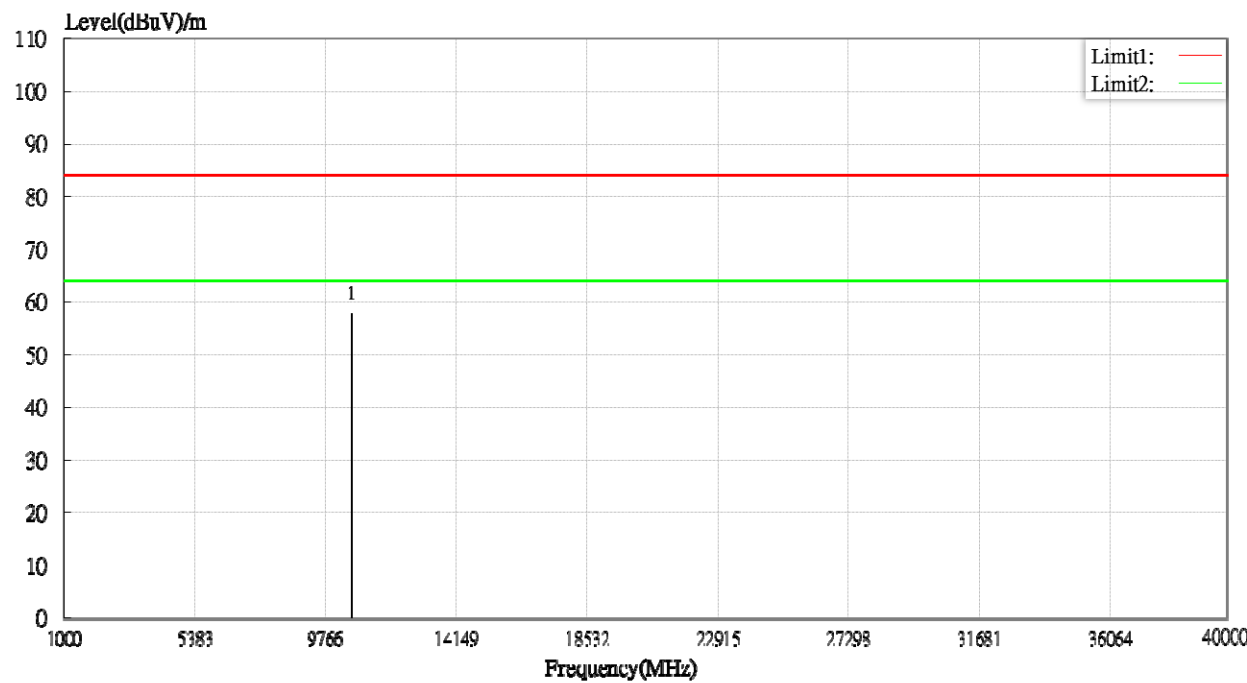


HT/VHT20 mode 5320 MHz Horizontal XOR

PK

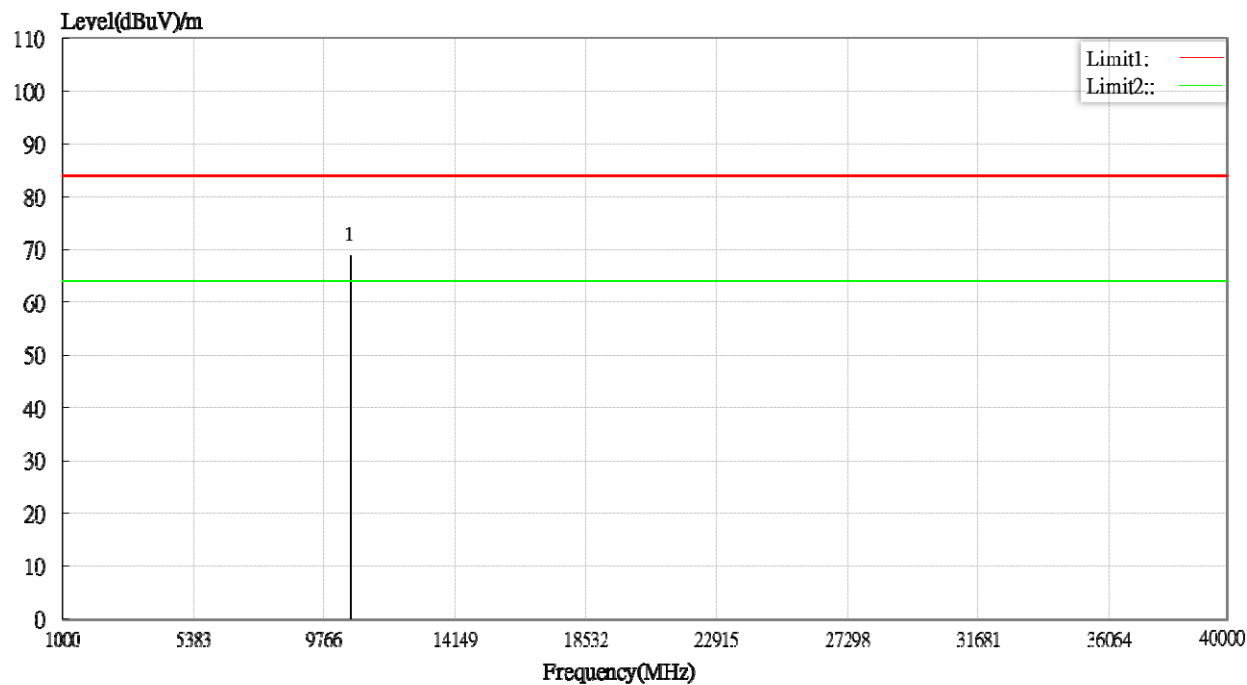


AVG

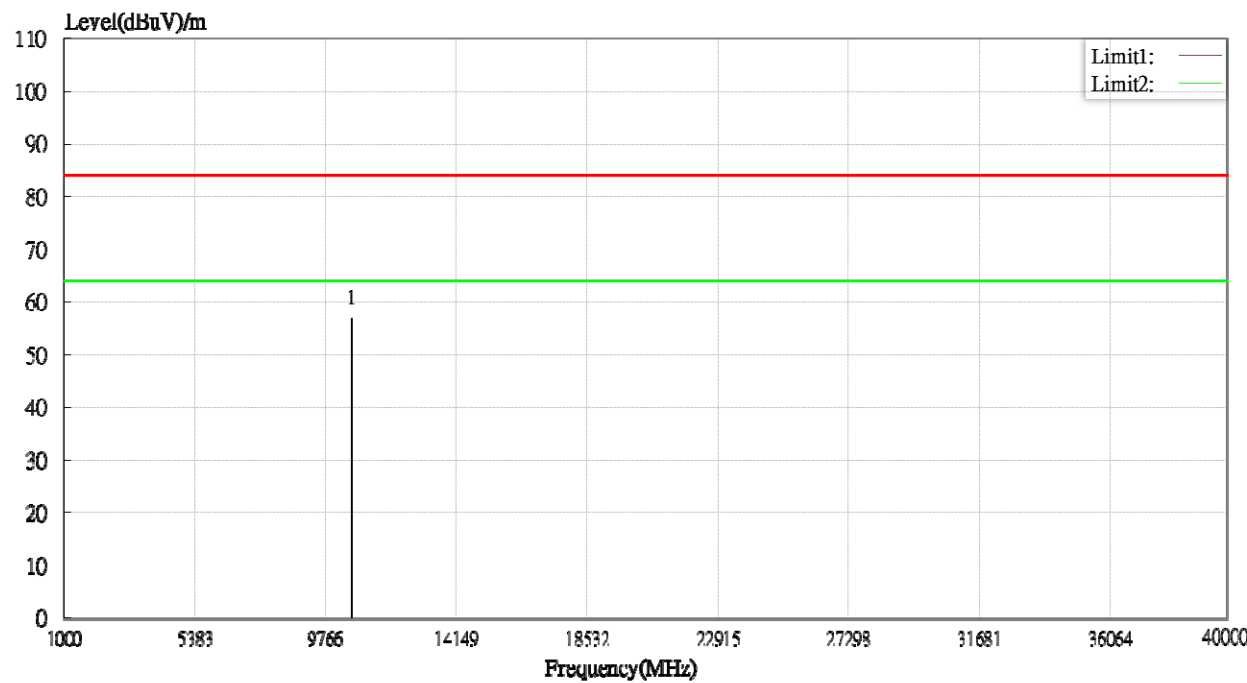


HT/VHT20 mode 5320 MHz Vertical XOR

PK

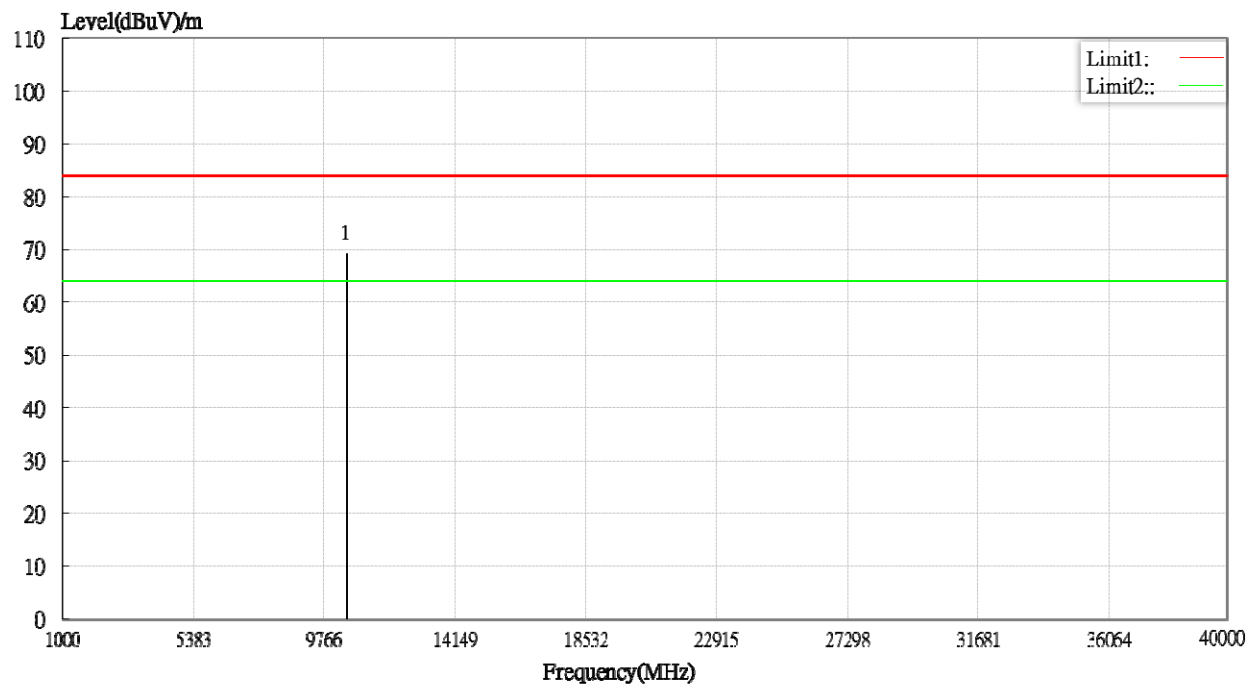


AVG

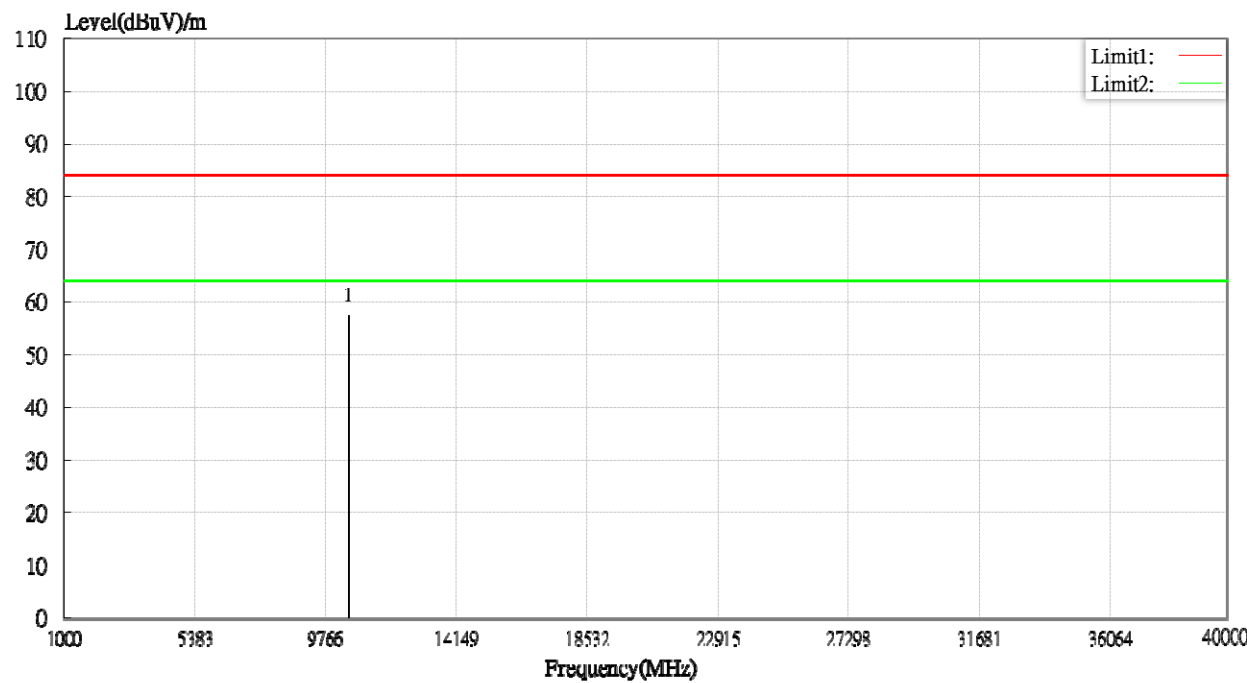


HE20 mode 5260 MHz Horizontal XOR

PK

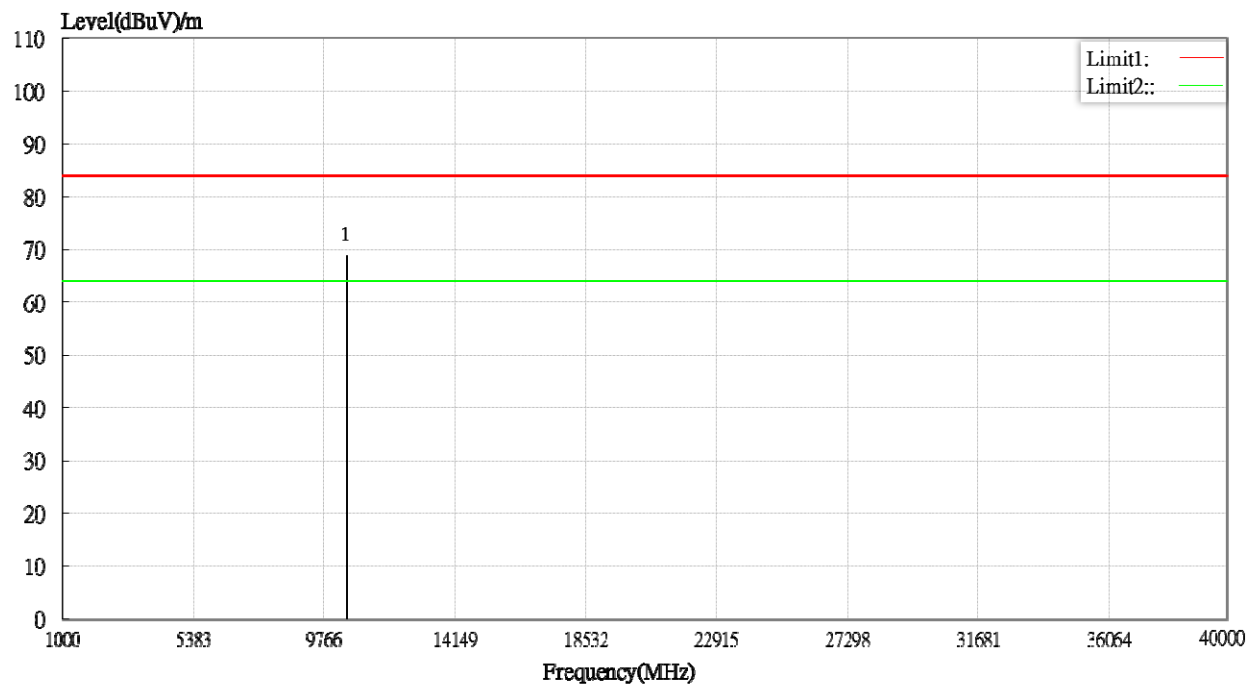


AVG

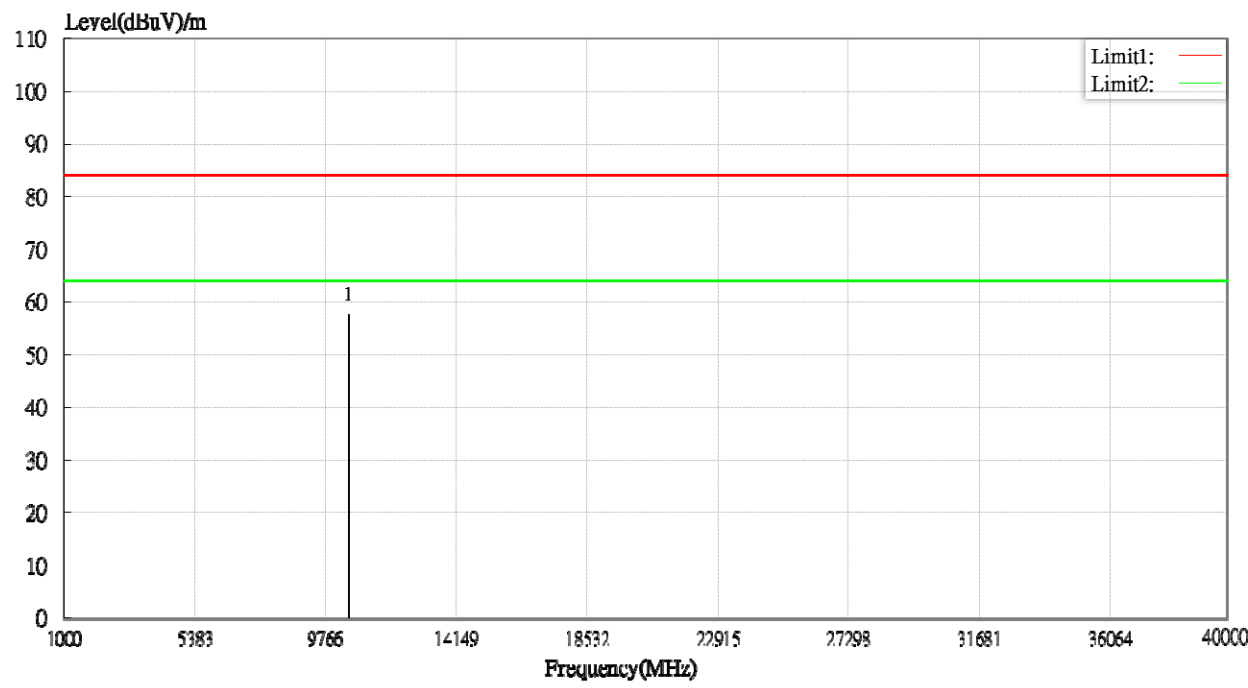


HE20 mode 5260 MHz Vertical XOR

PK

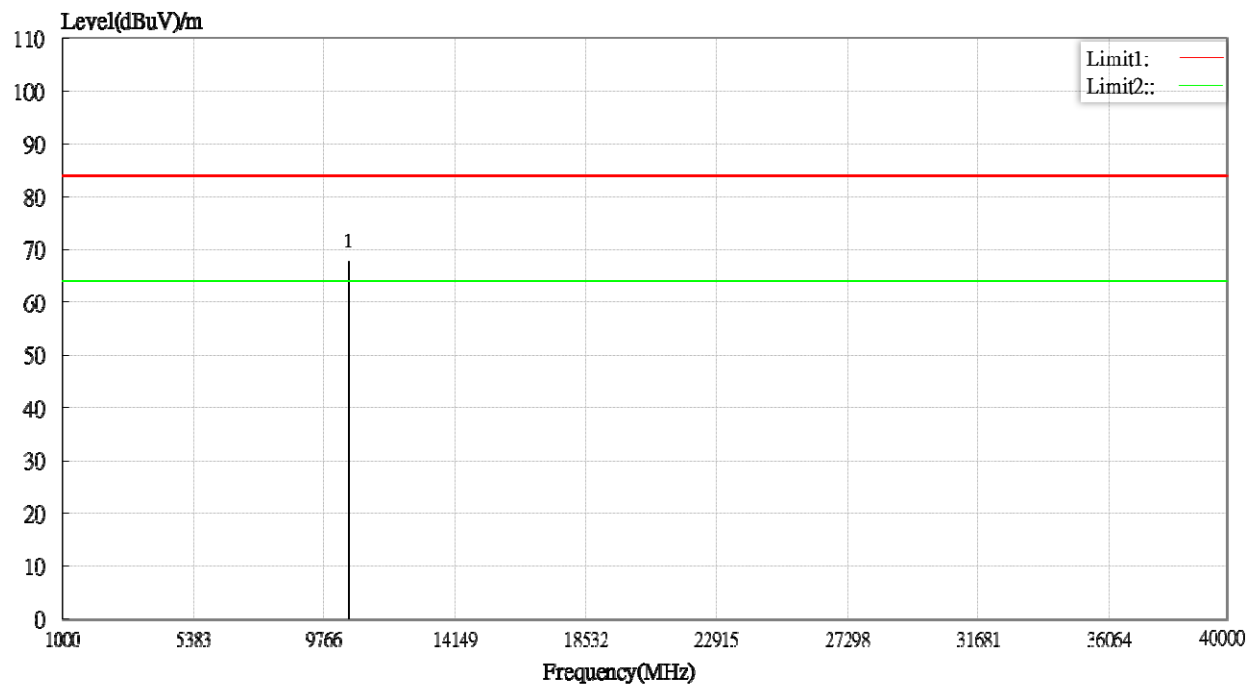


AVG

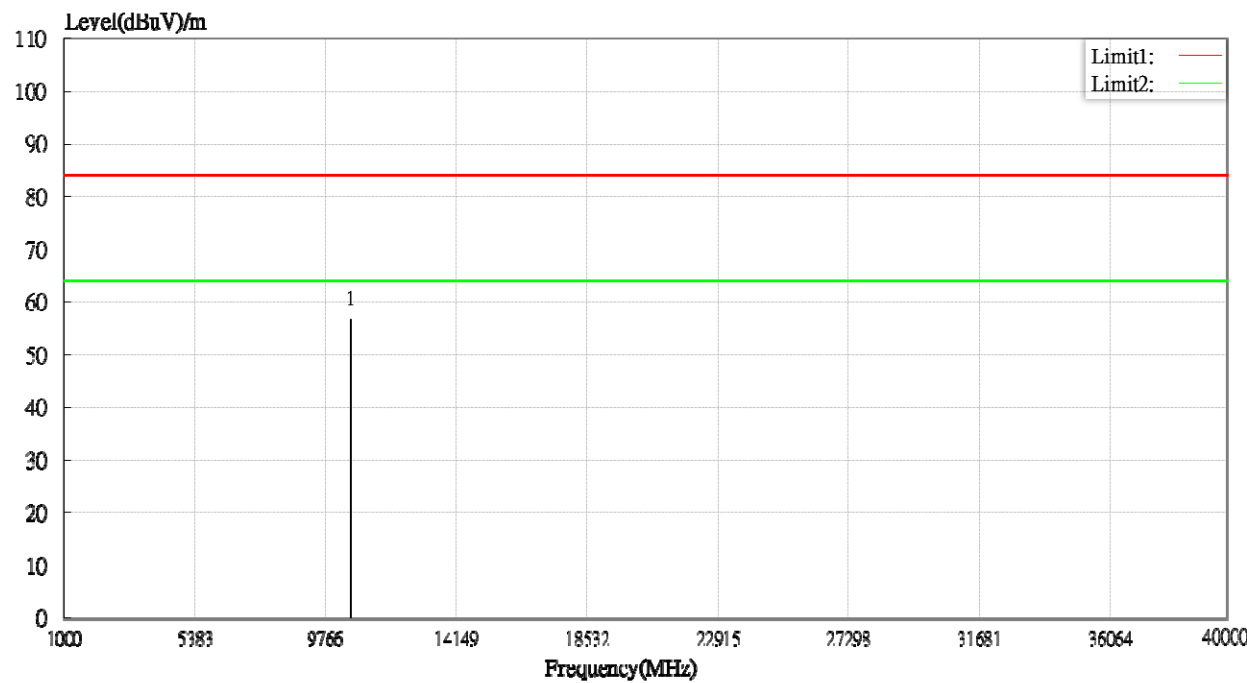


HE20 mode 5300 MHz Horizontal XOR

PK

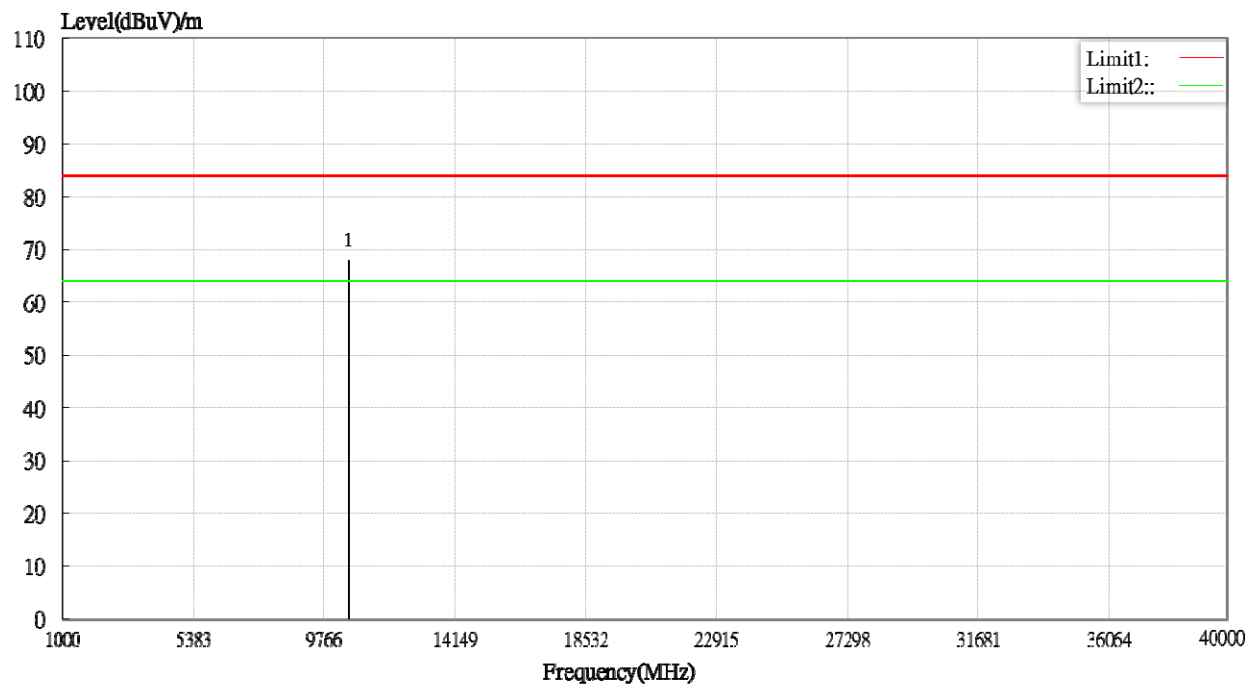


AVG

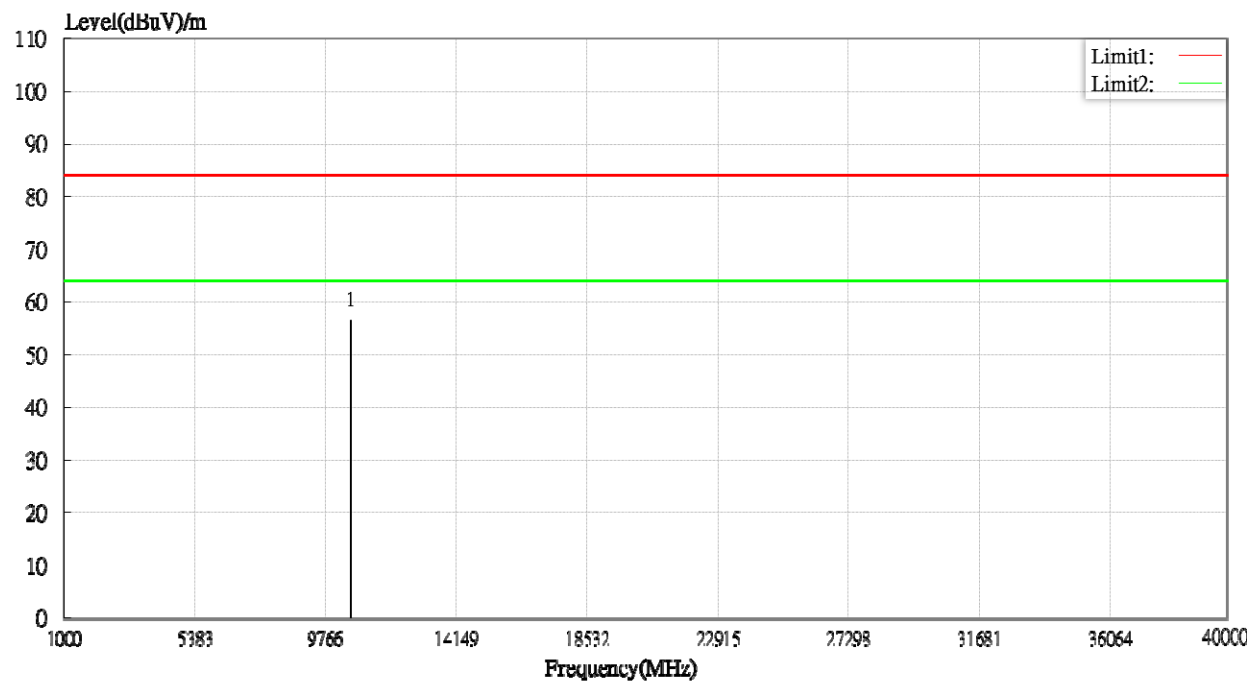


HE20 mode 5300 MHz Vertical XOR

PK

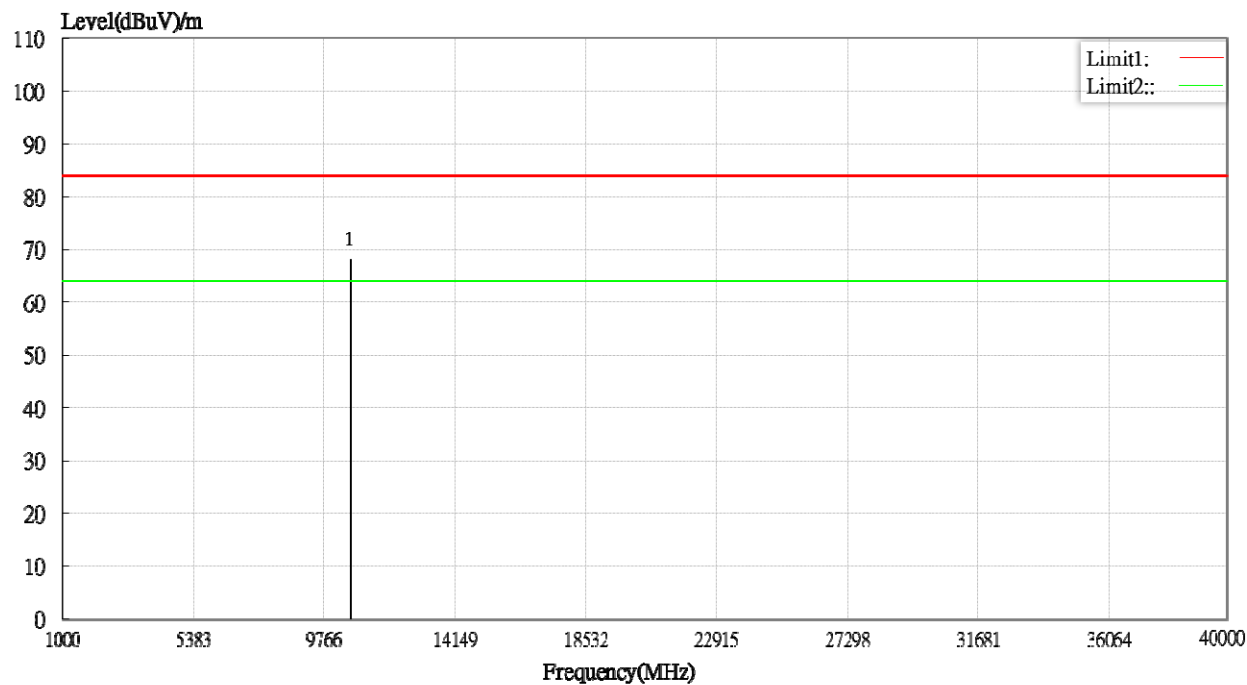


AVG

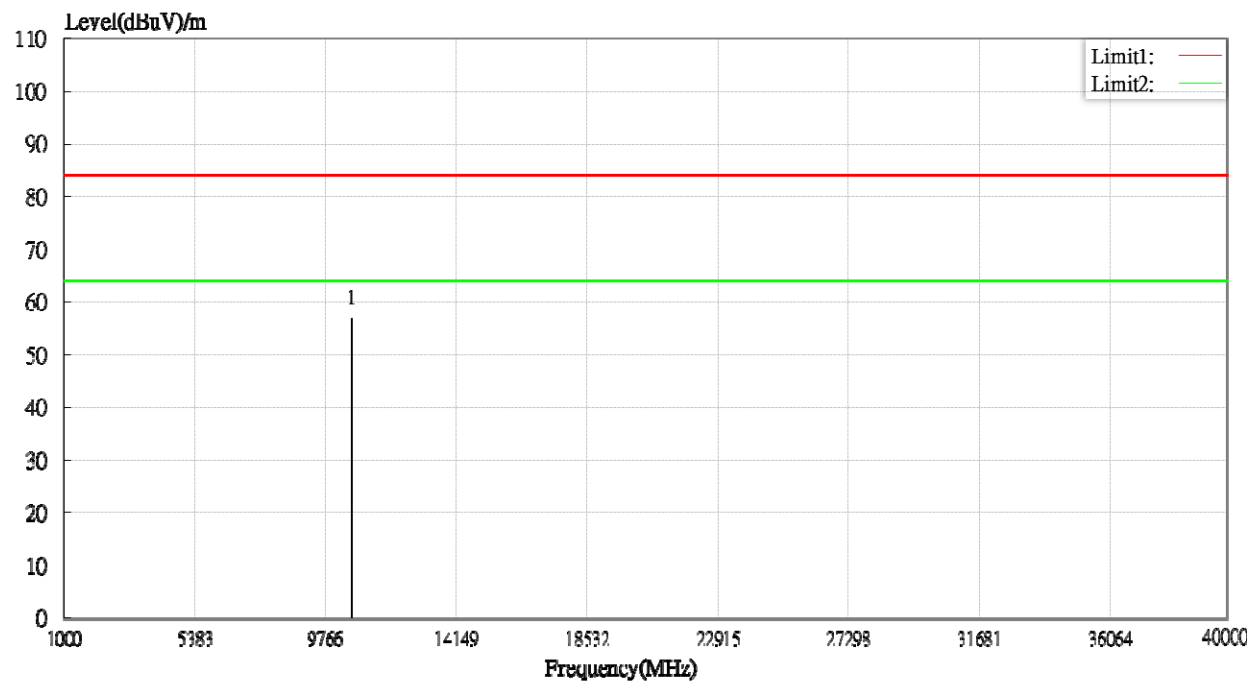


HE20 mode 5320 MHz Horizontal XOR

PK

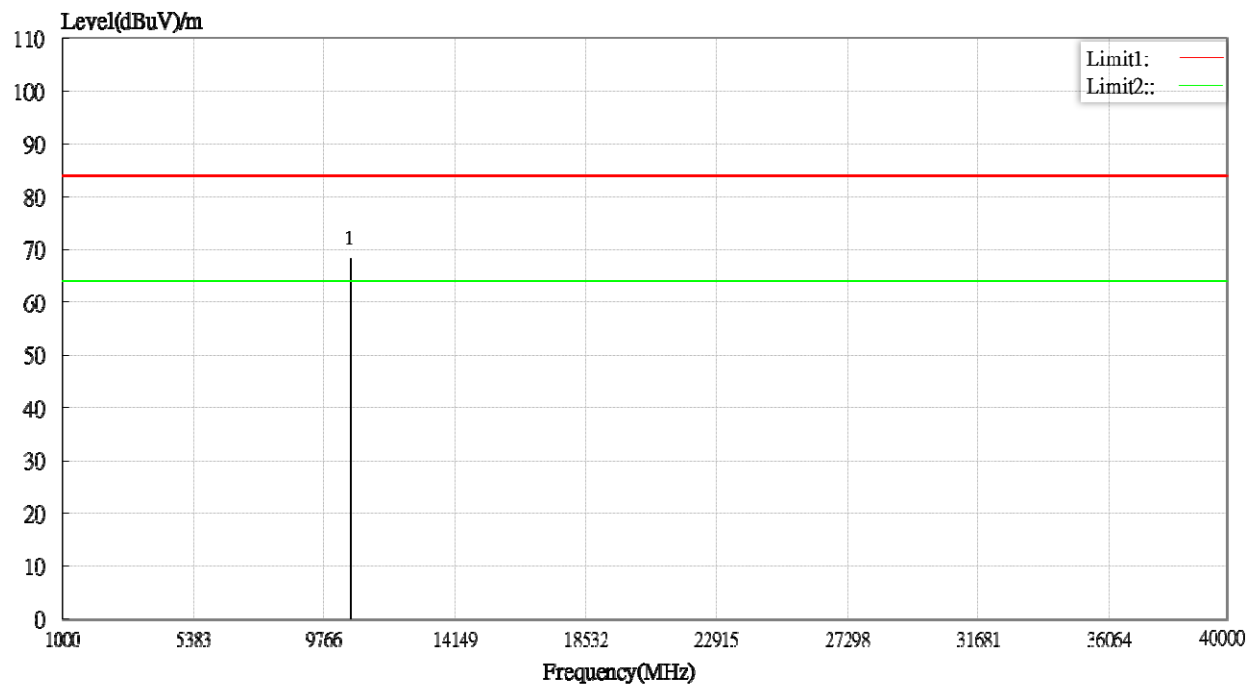


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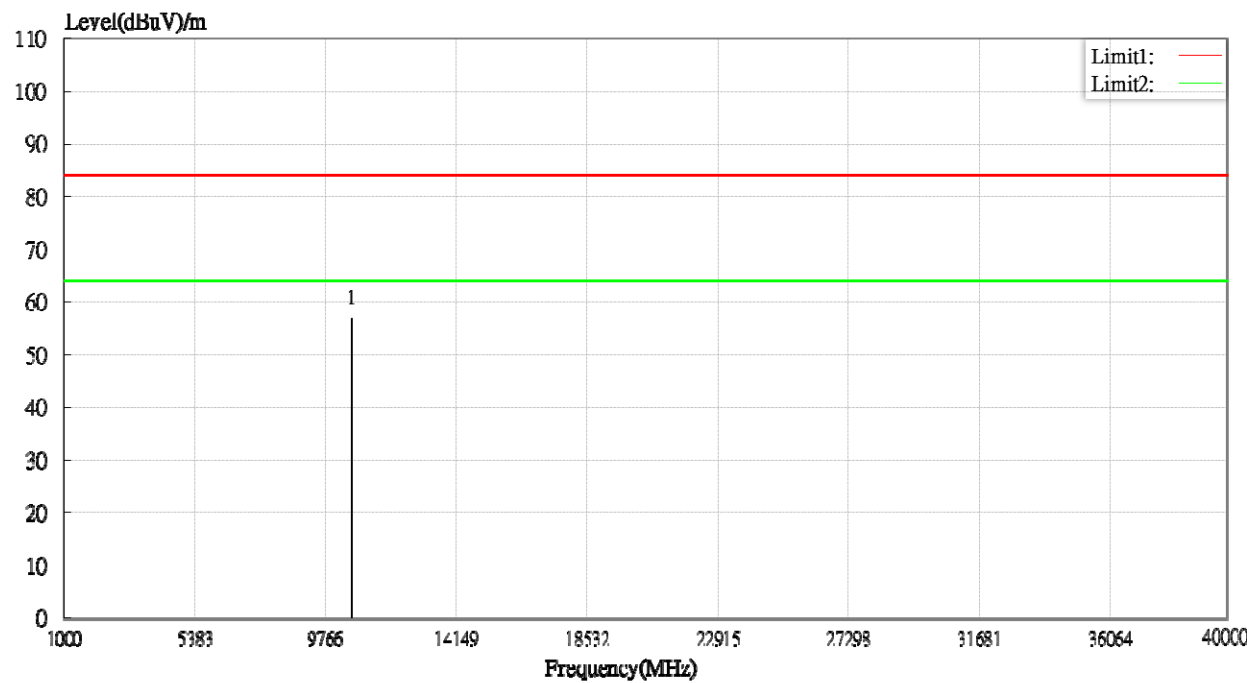


HE20 mode 5320 MHz Vertical XOR

PK

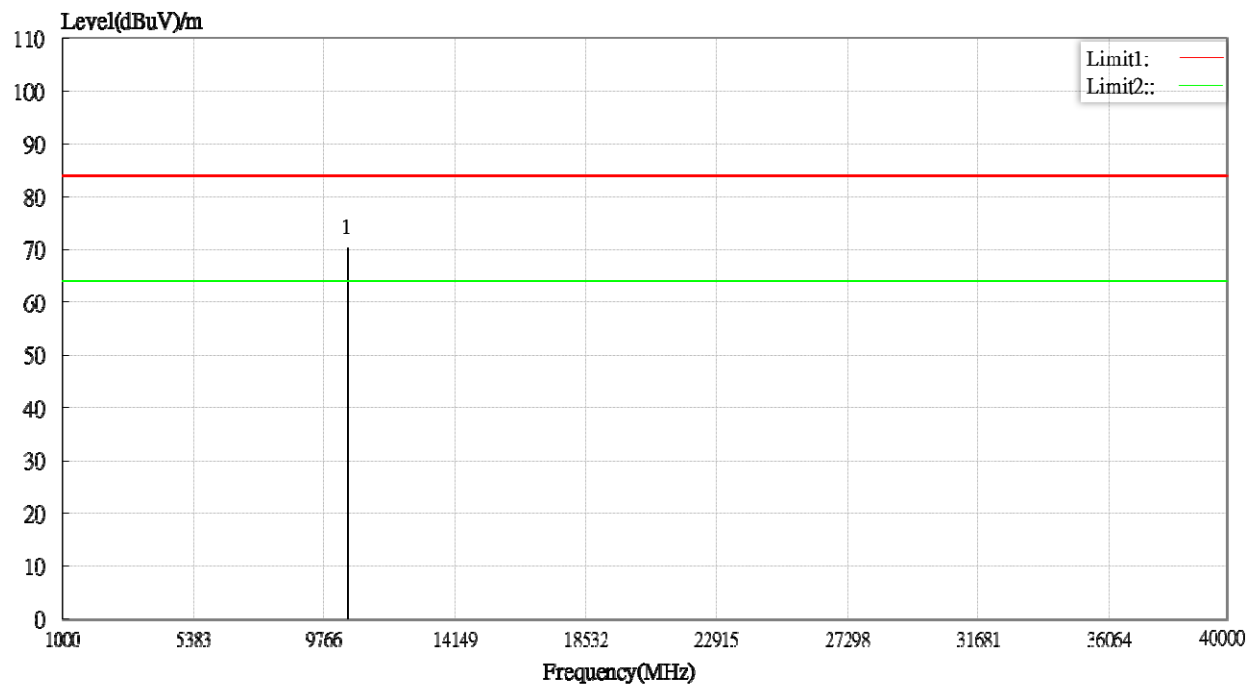


AVG

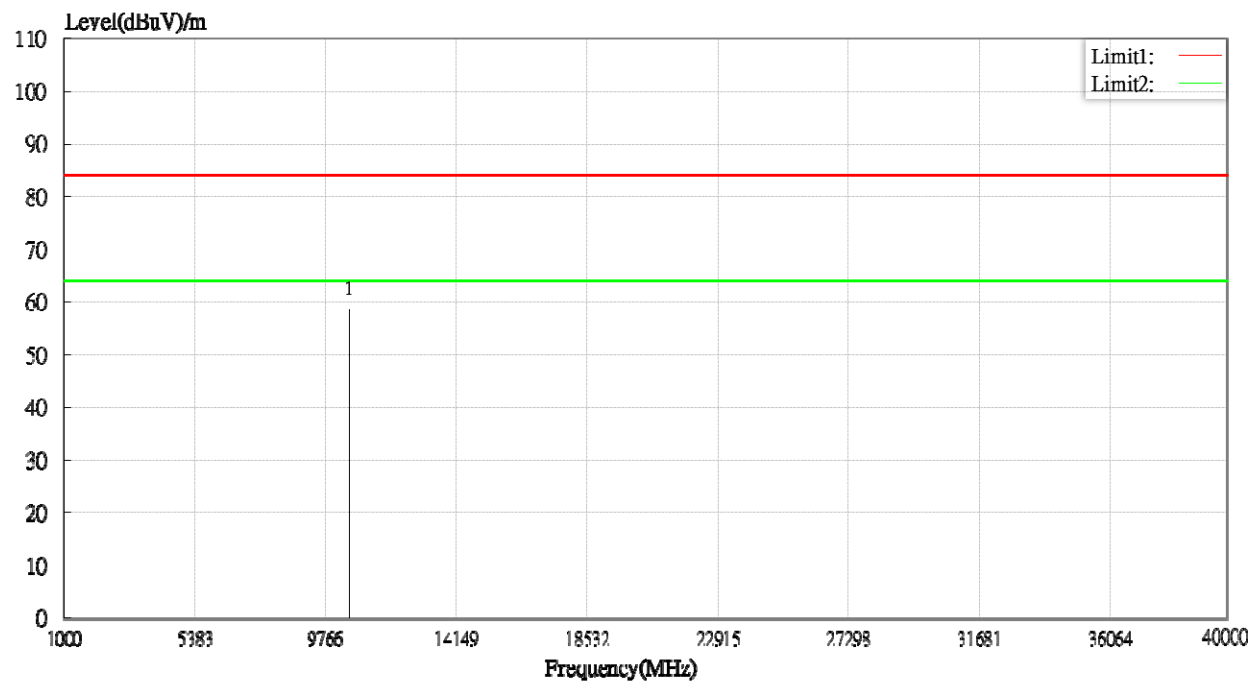


Non HT40 mode 5270 MHz Horizontal XOR

PK

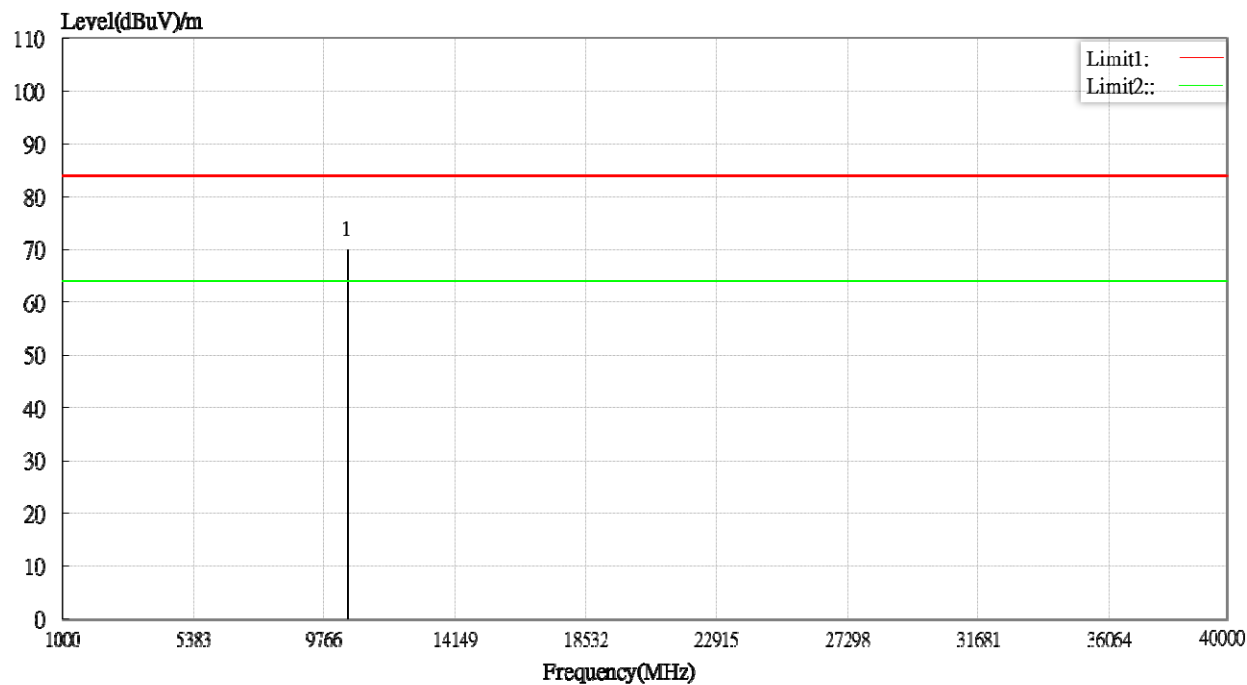


AVG

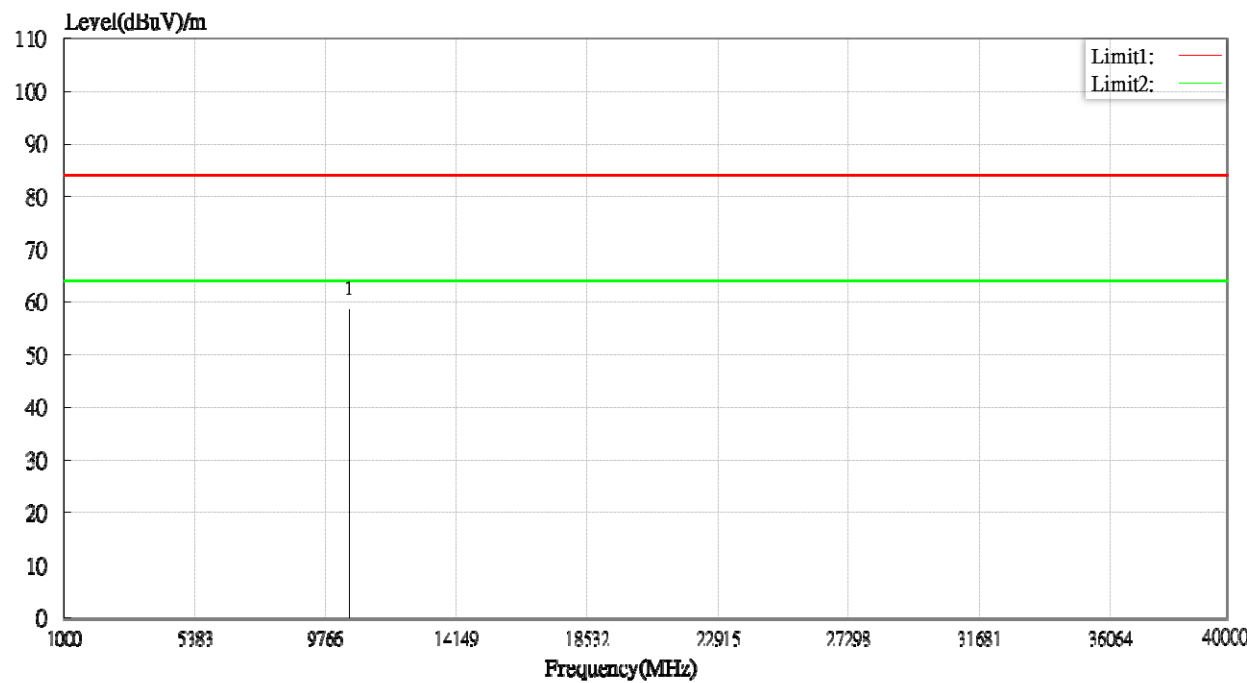


Non HT40 mode 5270 MHz Vertical XOR

PK

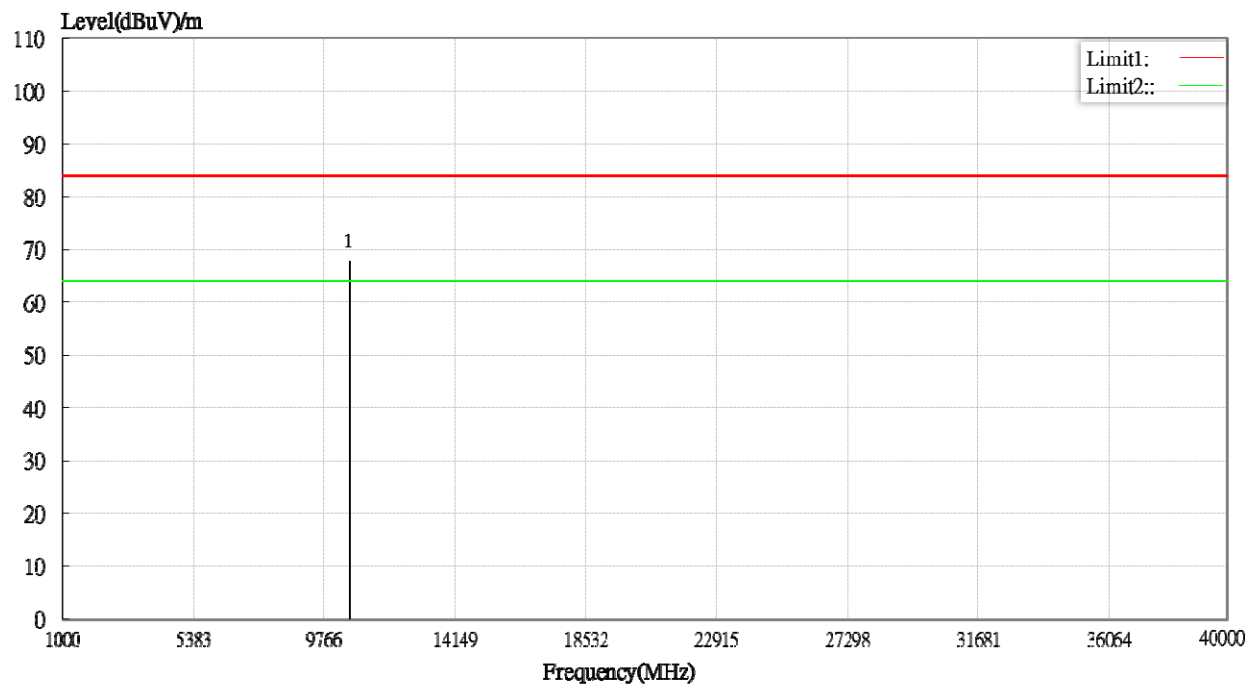


AVG

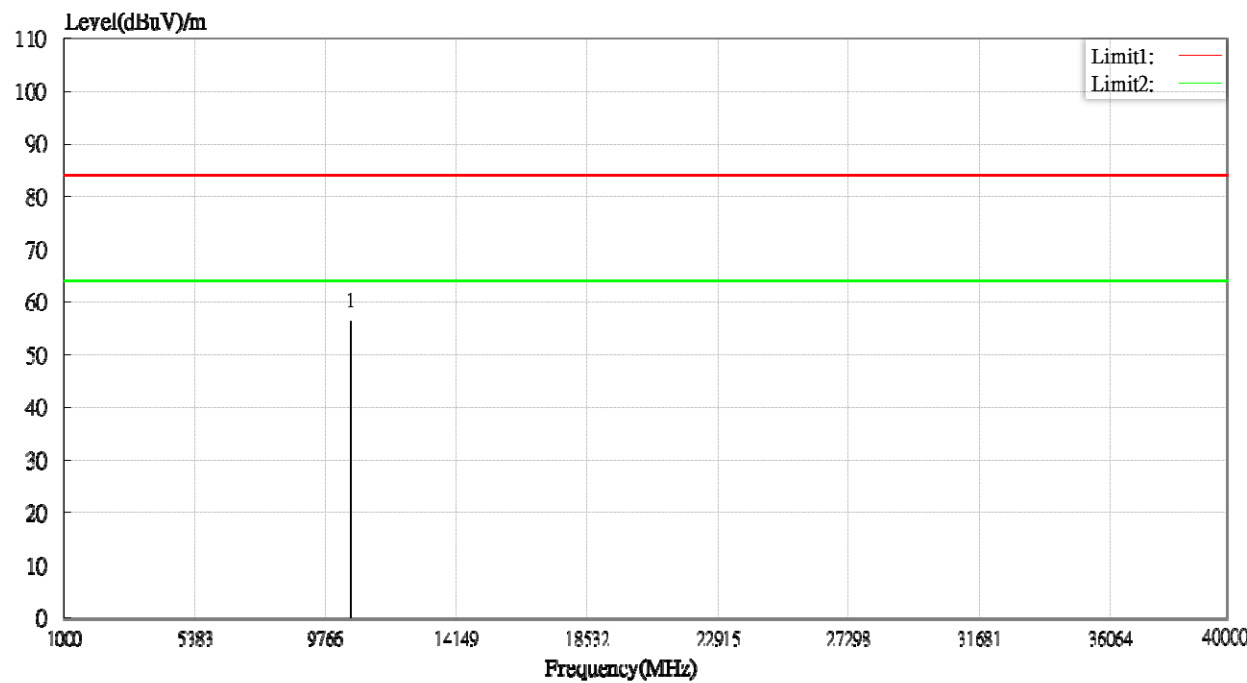


Non HT40 mode 5310 MHz Horizontal XOR

PK

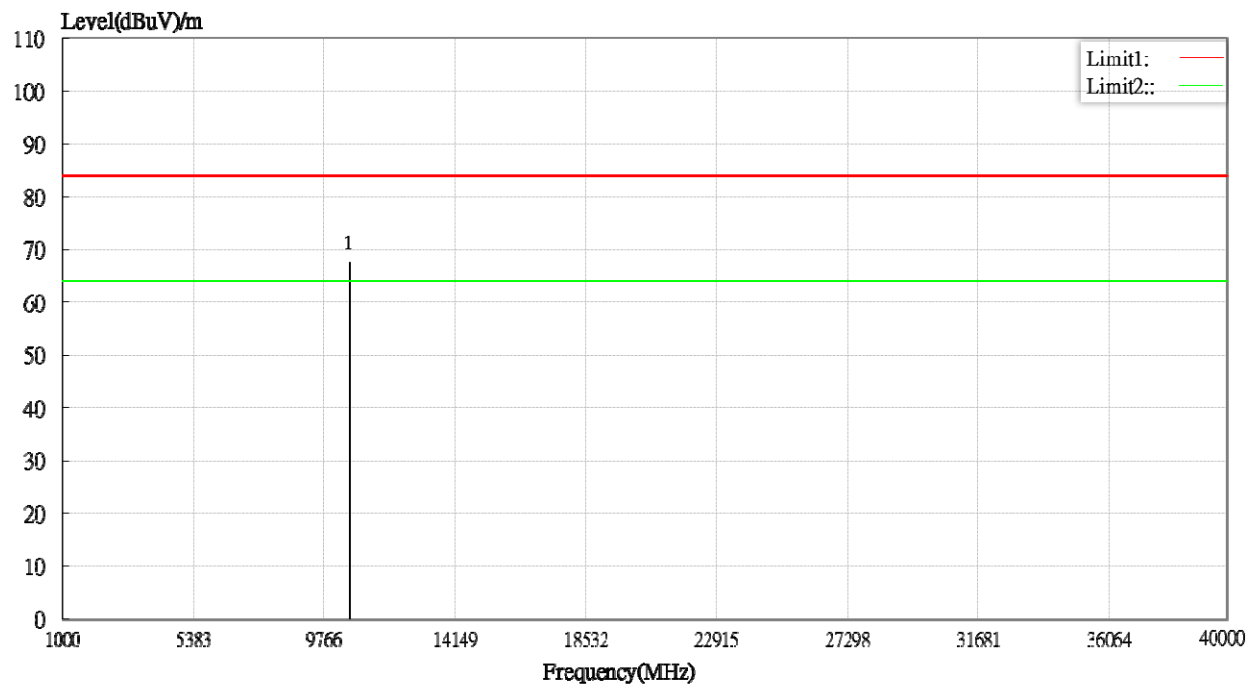


AVG

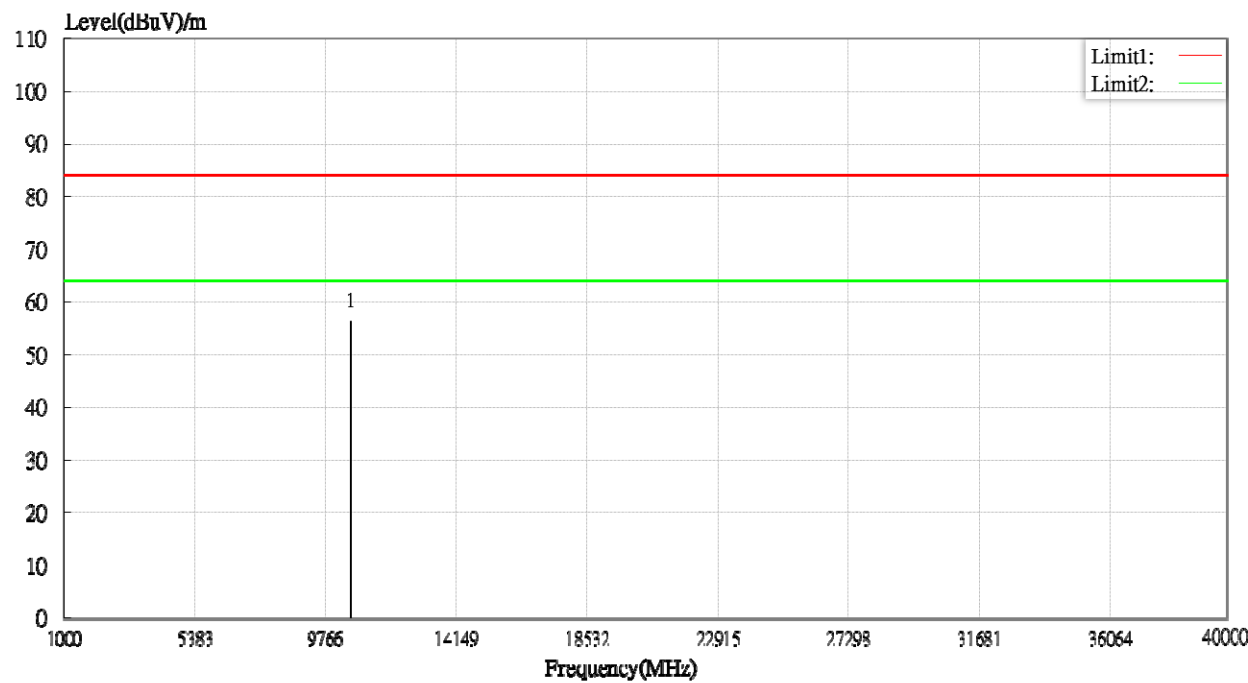


Non HT40 mode 5310 MHz Vertical XOR

PK

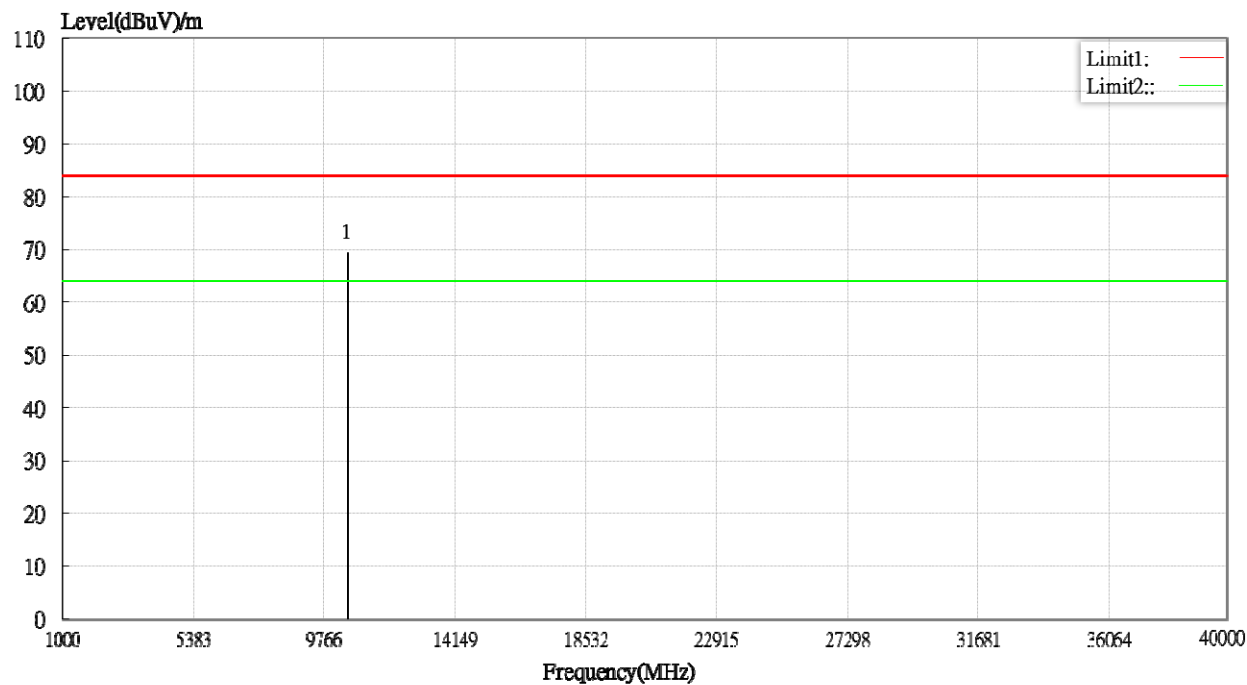


AVG

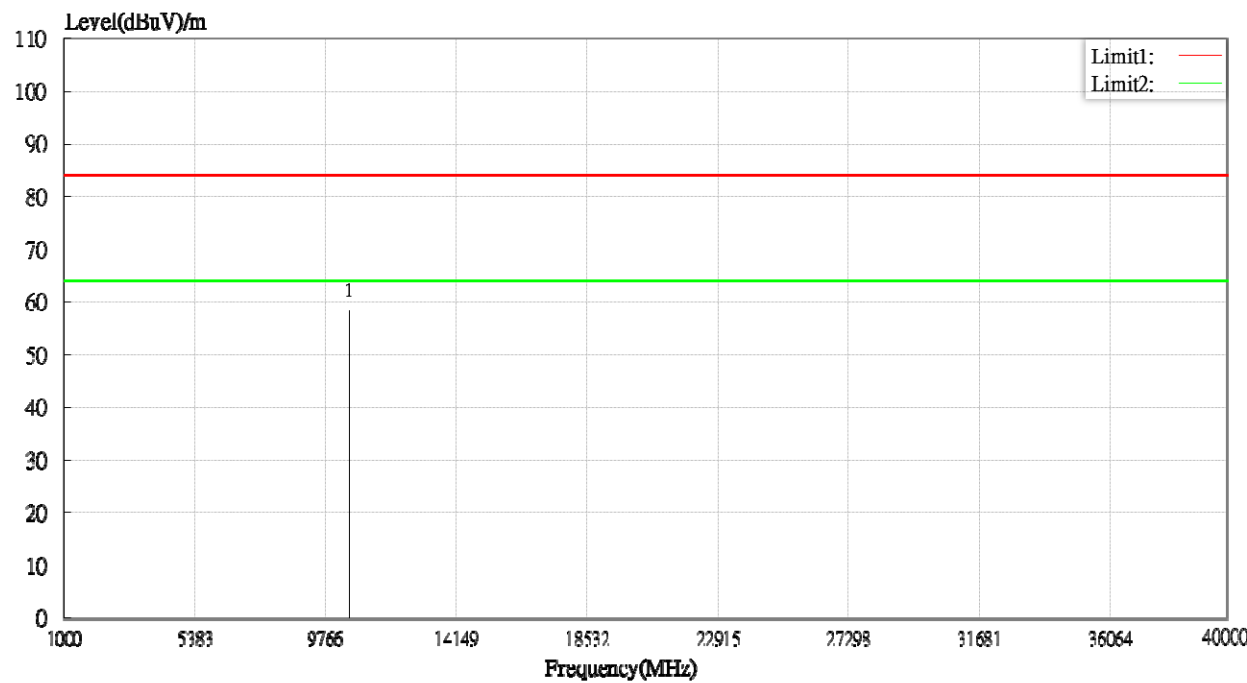


HT/VHT40 mode 5270 MHz Horizontal XOR

PK

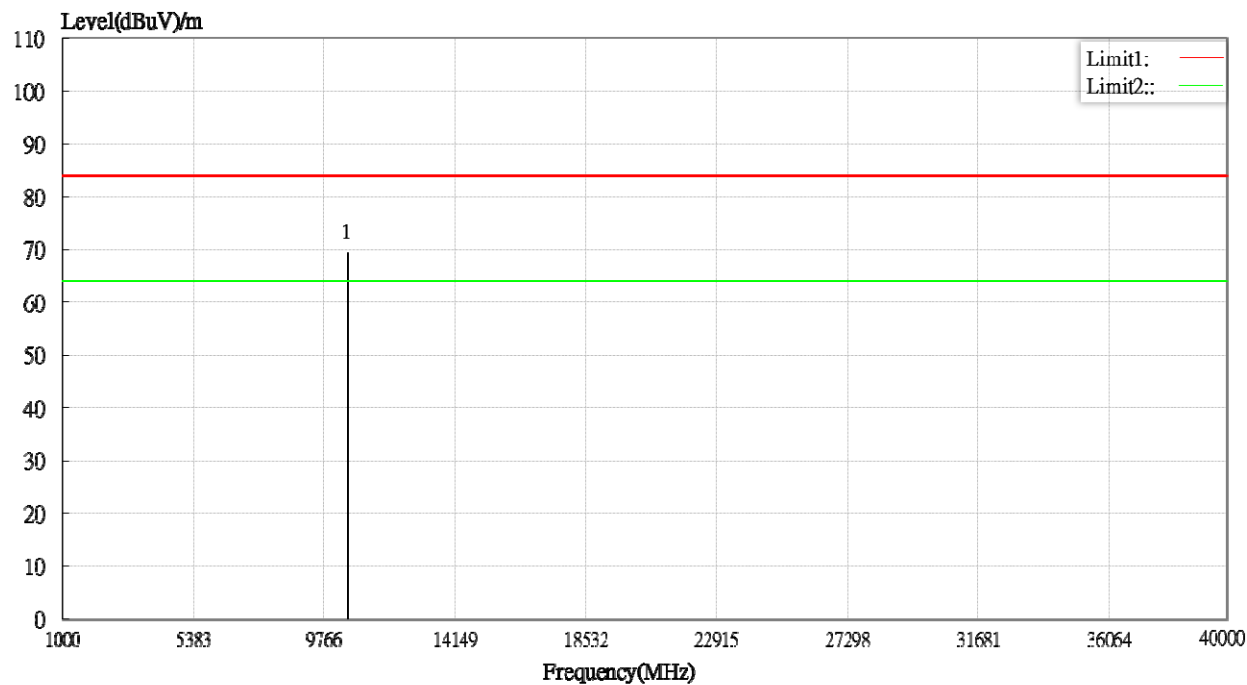


AVG

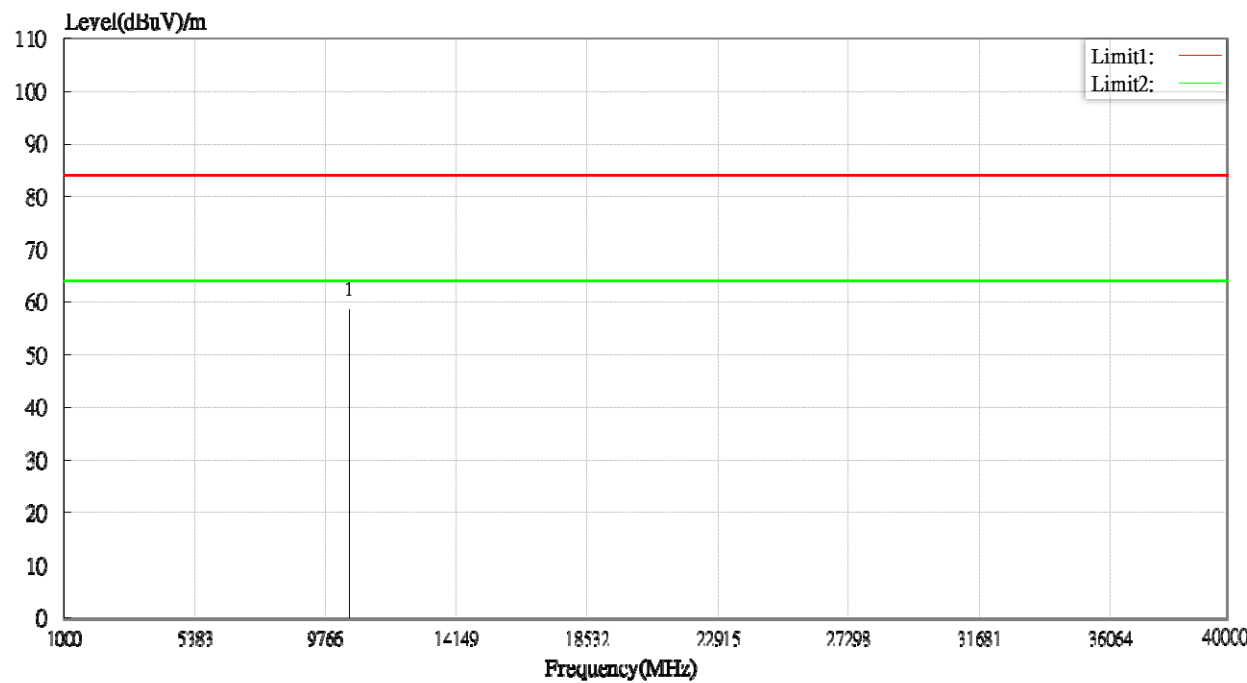


HT/VHT40 mode 5270 MHz Vertical XOR

PK

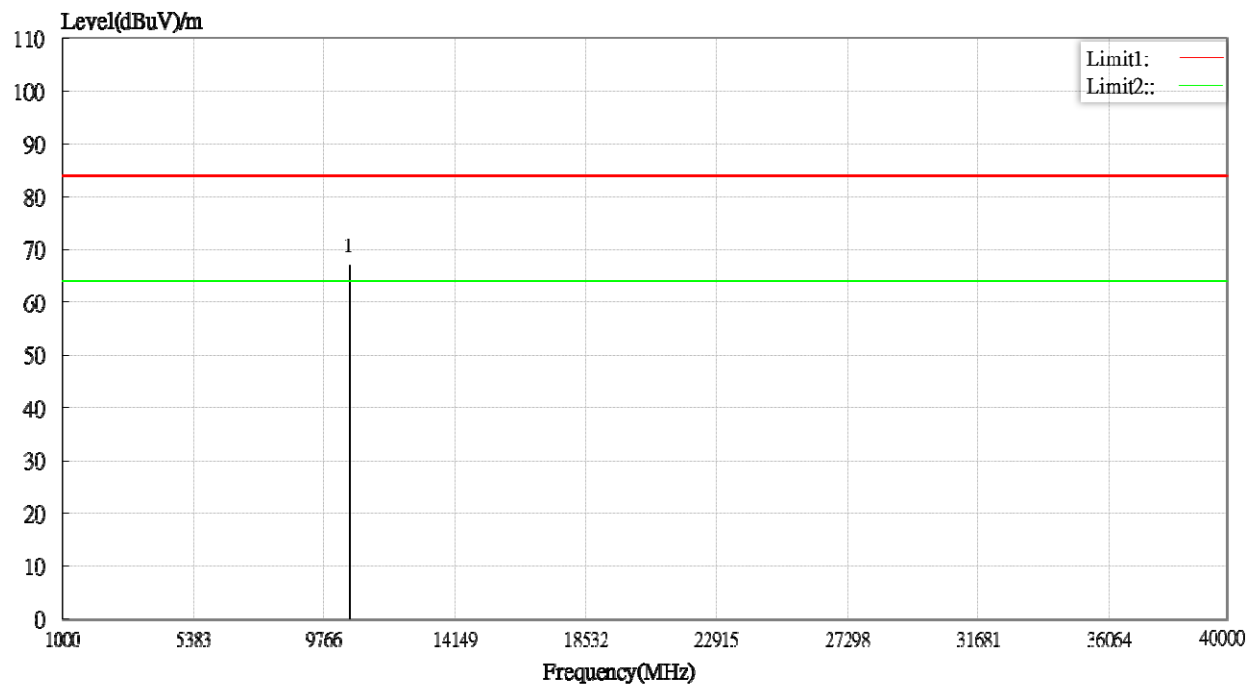


AVG

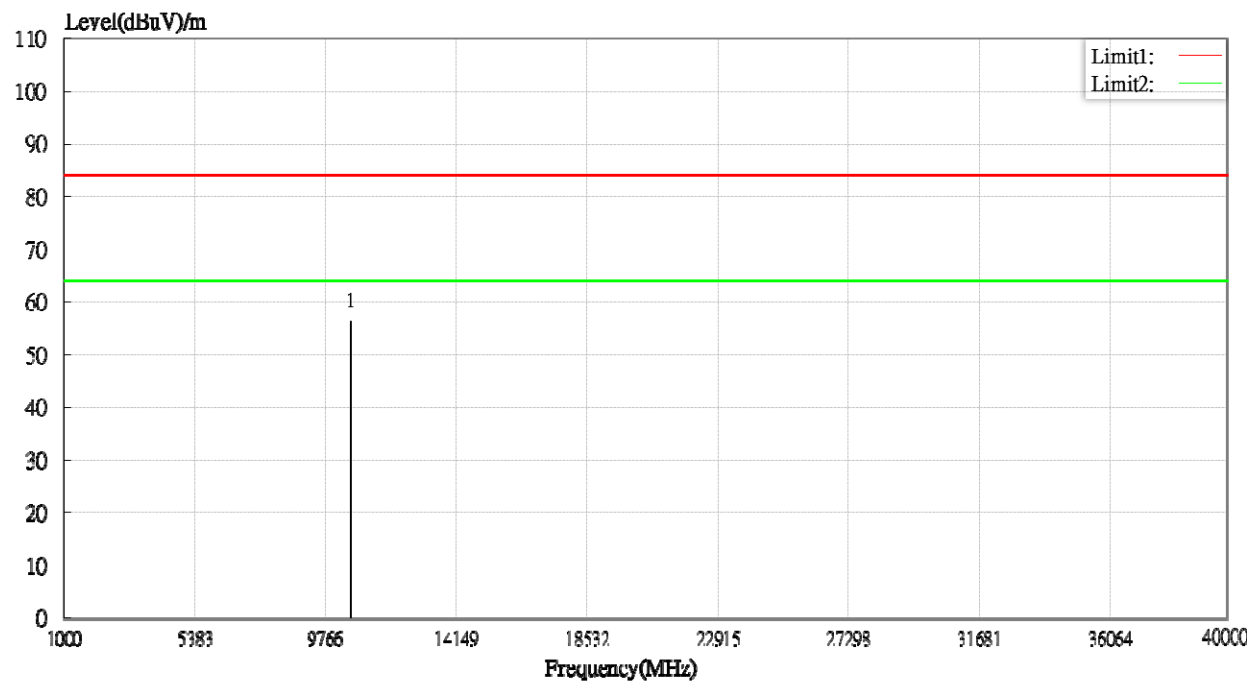


HT/VHT40 mode 5310 MHz Horizontal XOR

PK

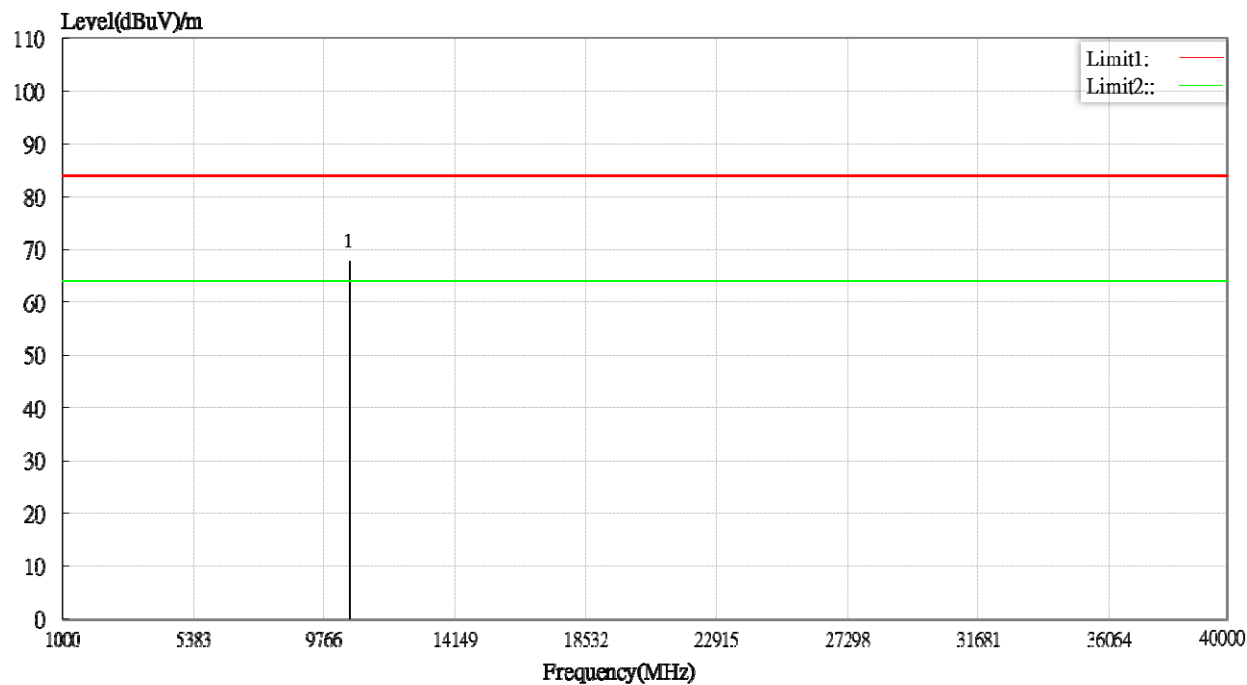


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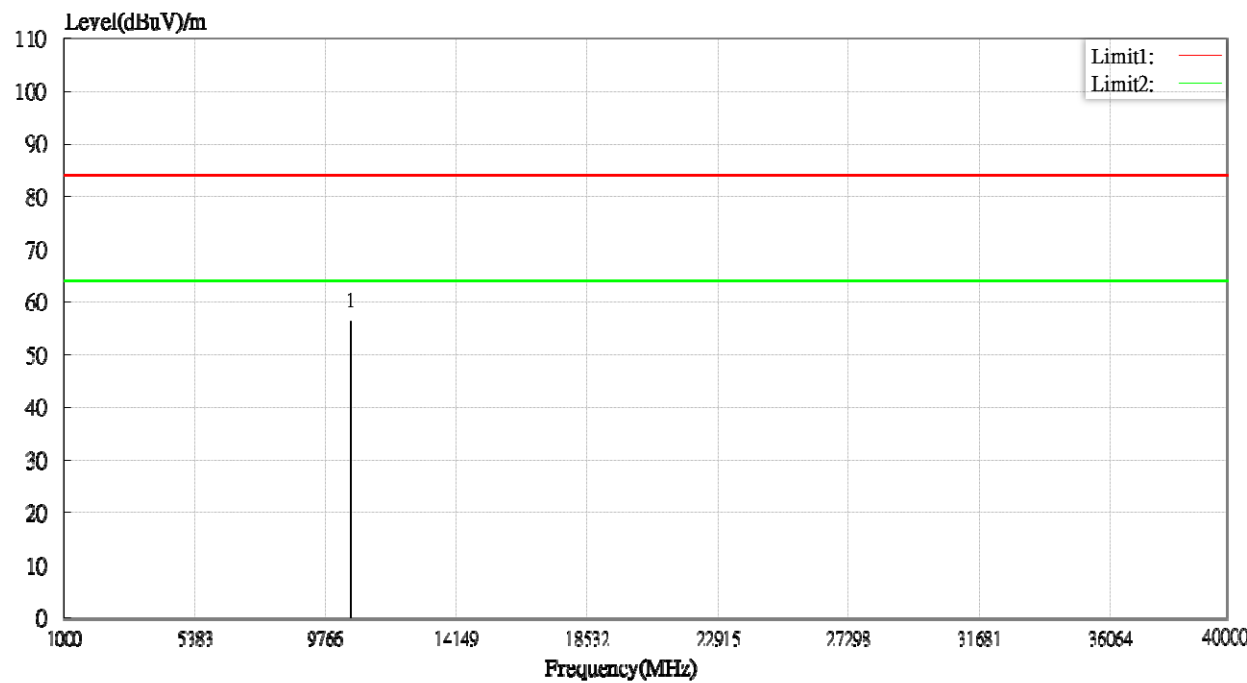


HT/VHT40 mode 5310 MHz Vertical XOR

PK

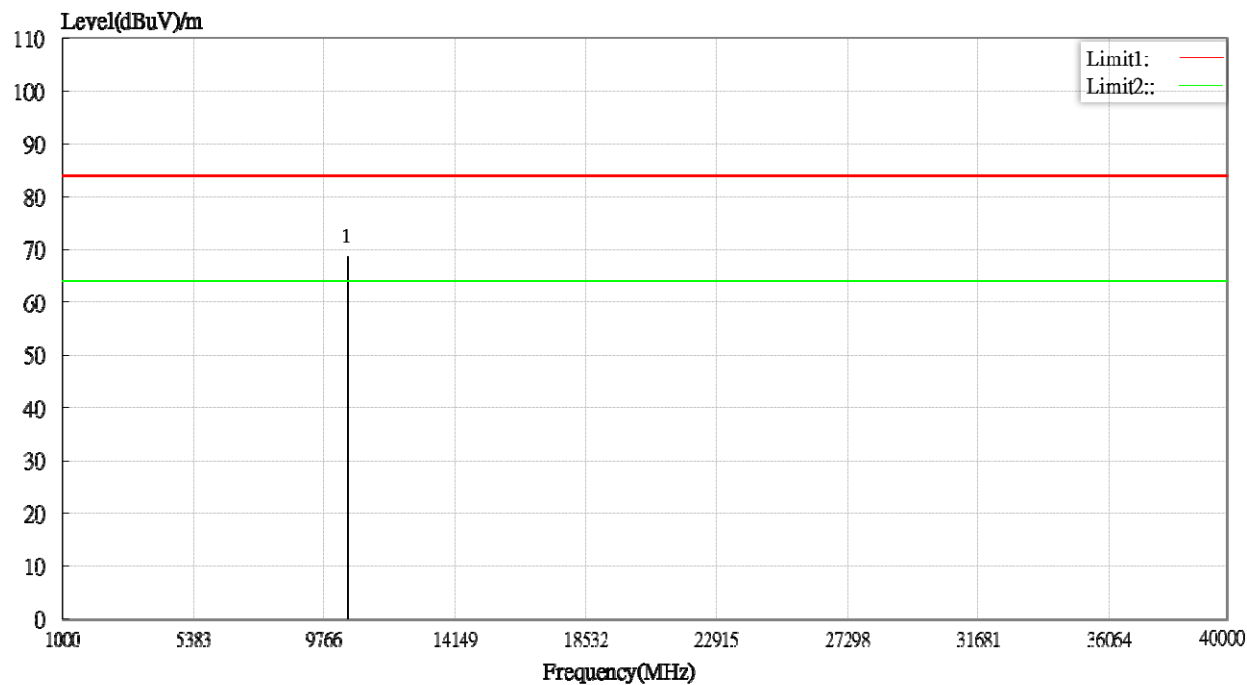


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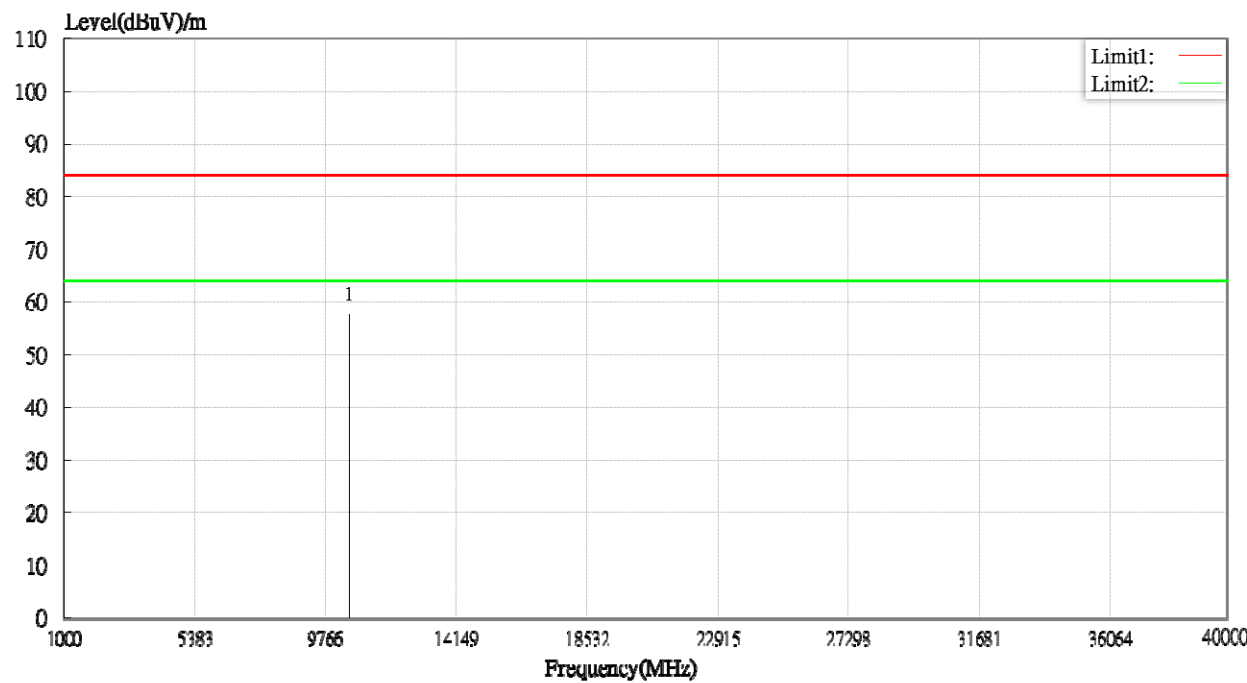


HE40 mode 5270 MHz Horizontal XOR

PK

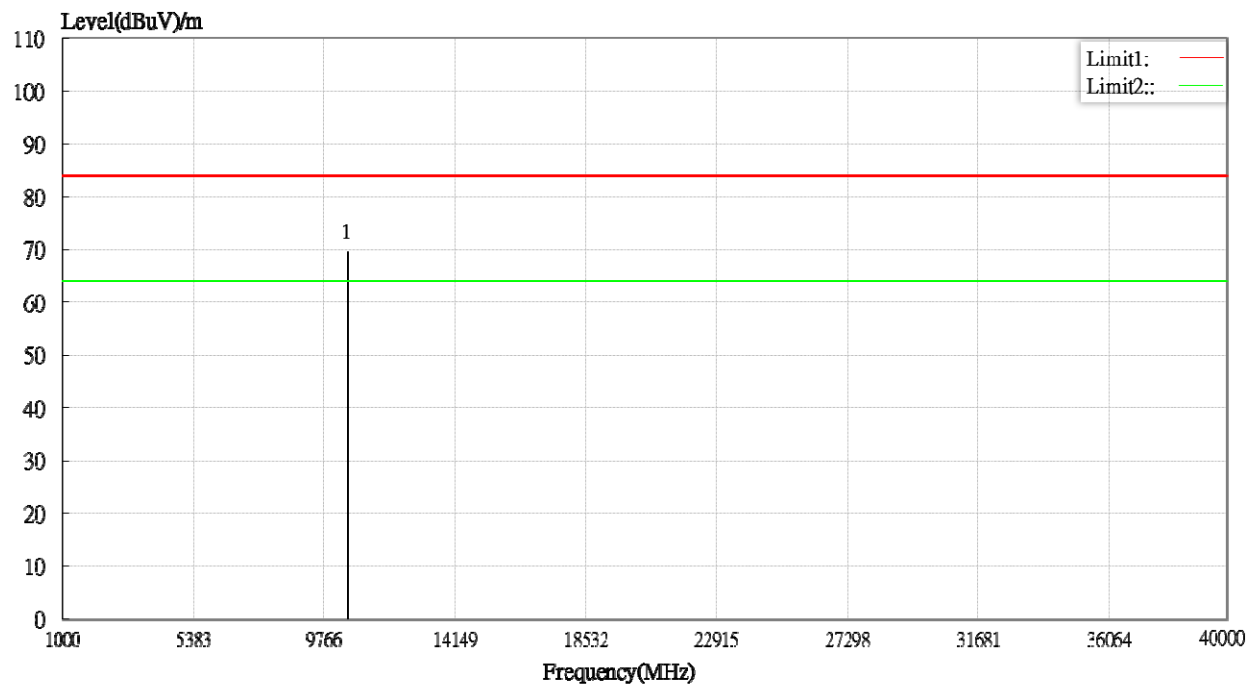


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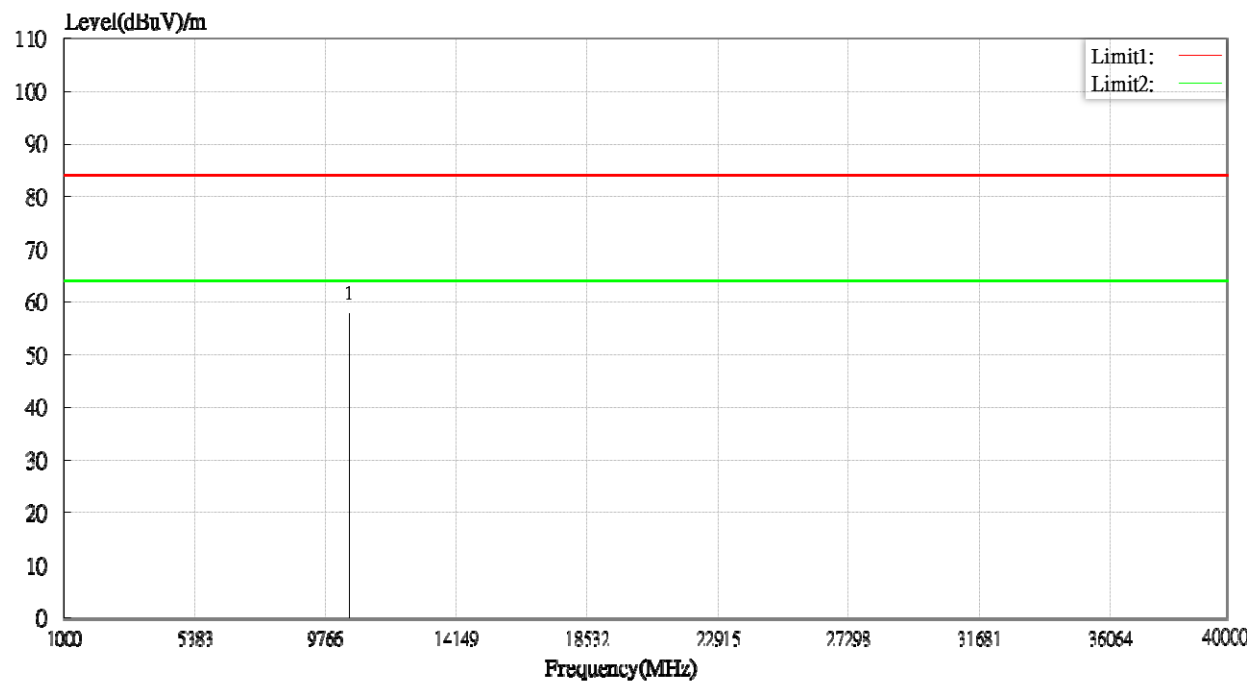


HE40 mode 5270 MHz Vertical XOR

PK

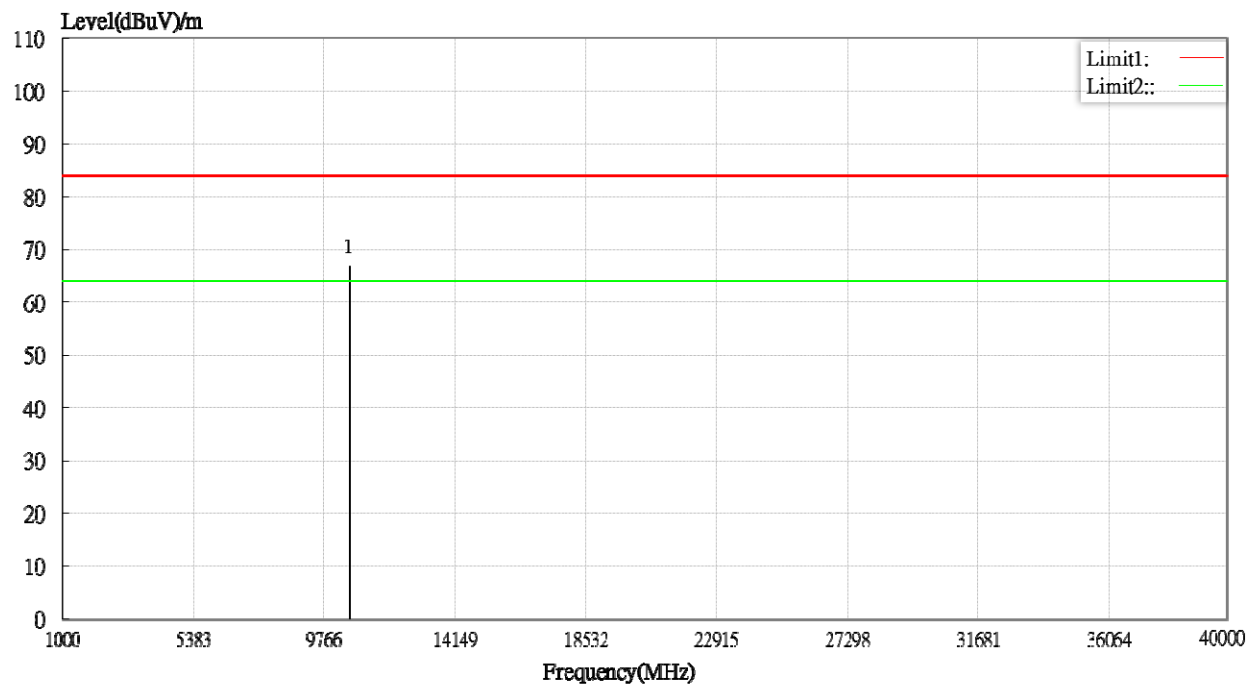


AVG

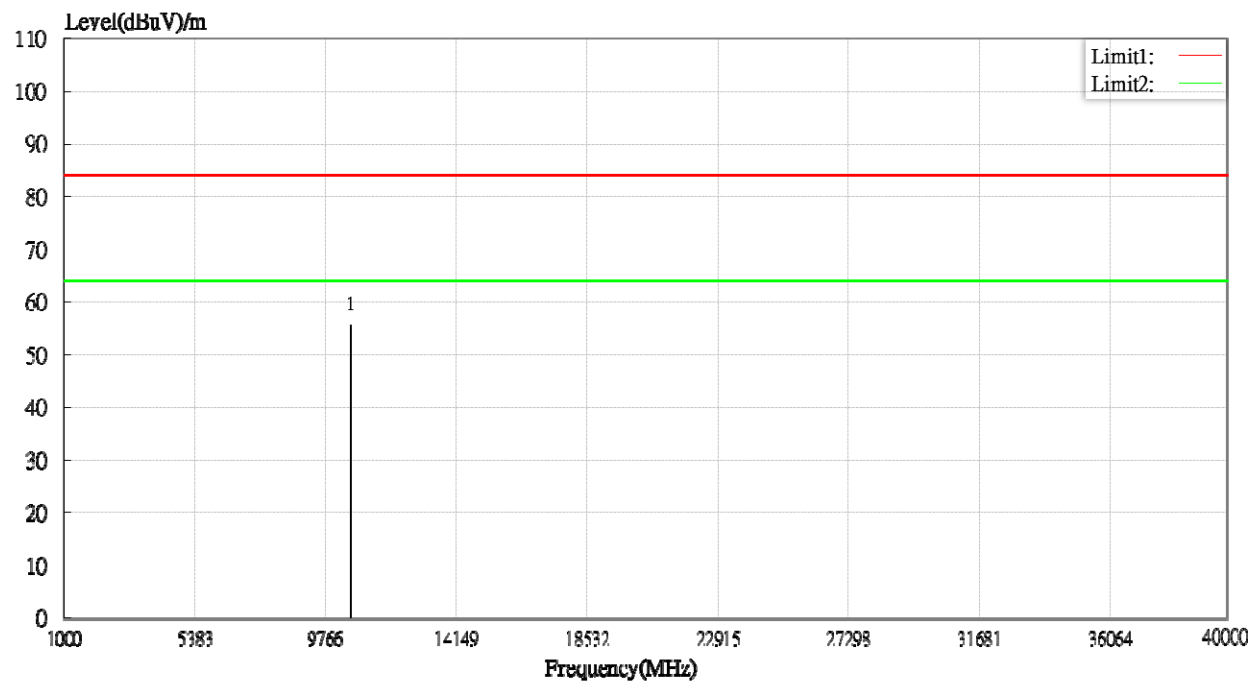


HE40 mode 5310 MHz Horizontal XOR

PK

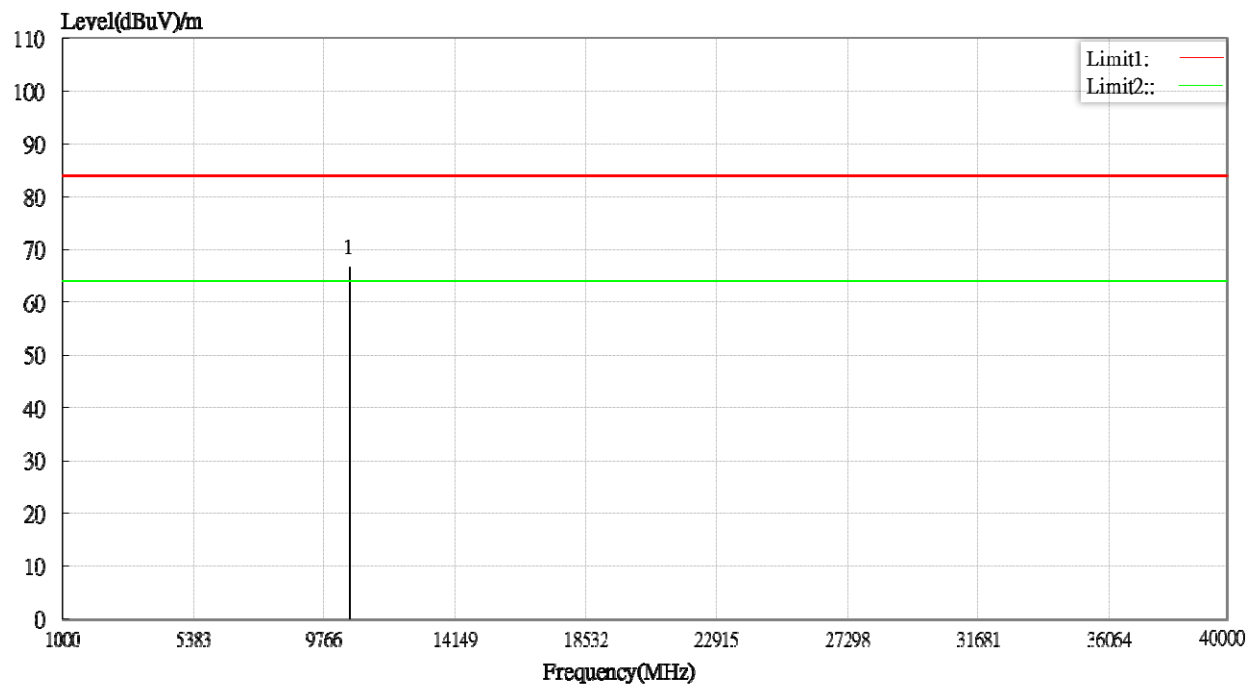


AVG

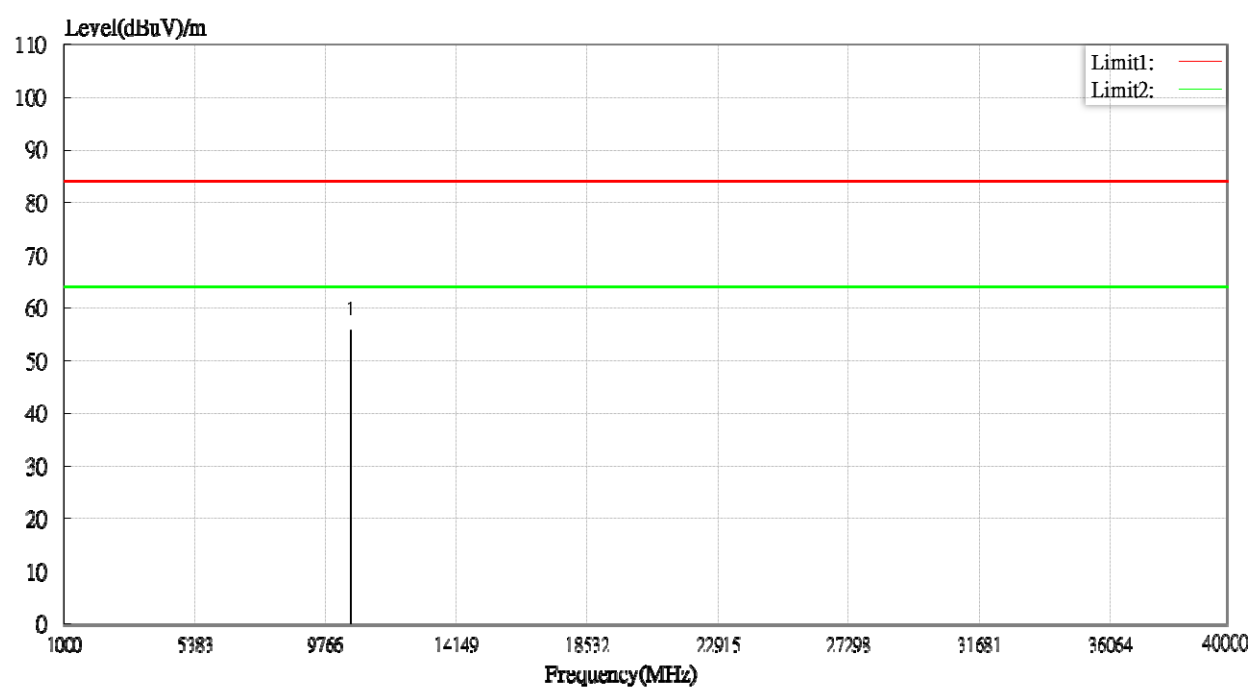


HE40 mode 5310 MHz Vertical XOR

PK

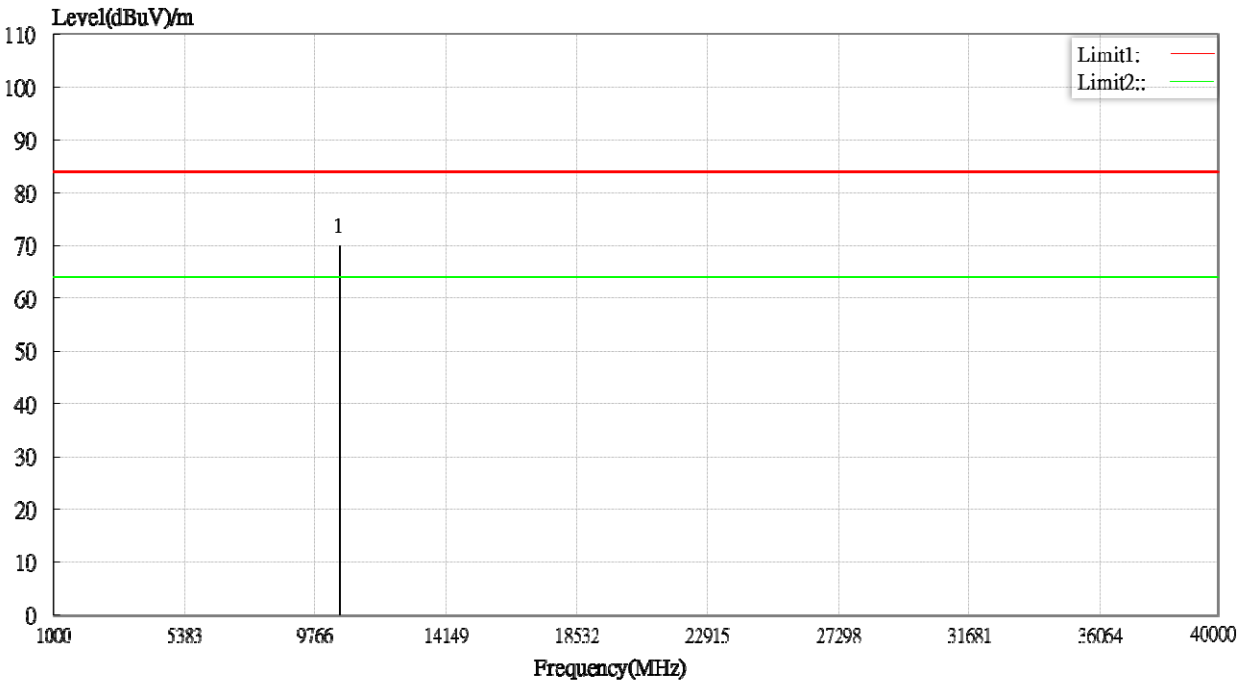


AVG

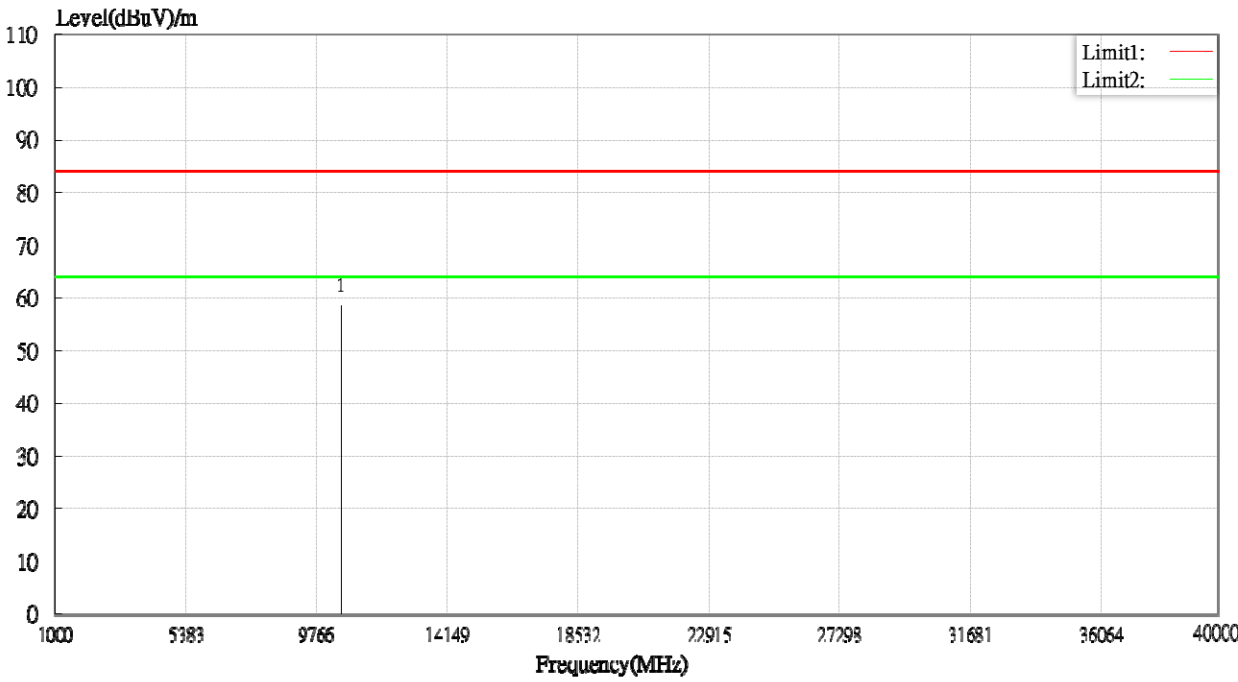


Non HT80 mode 5290 MHz Horizontal XOR

PK

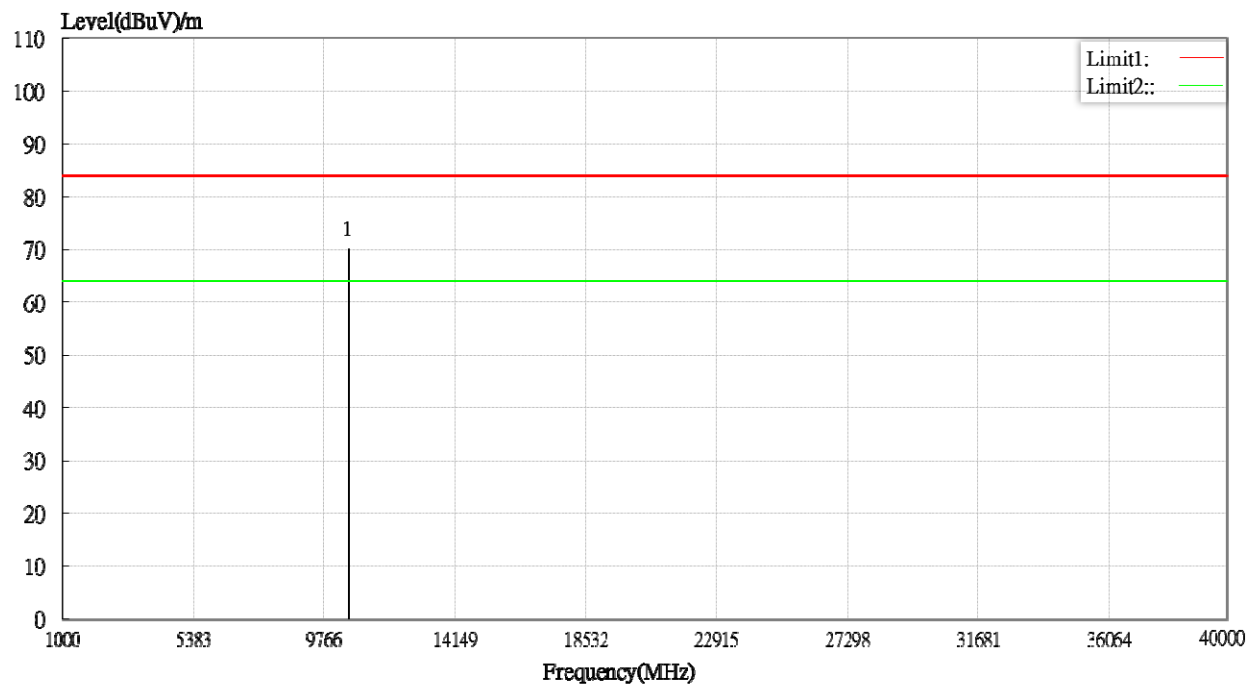


AVG

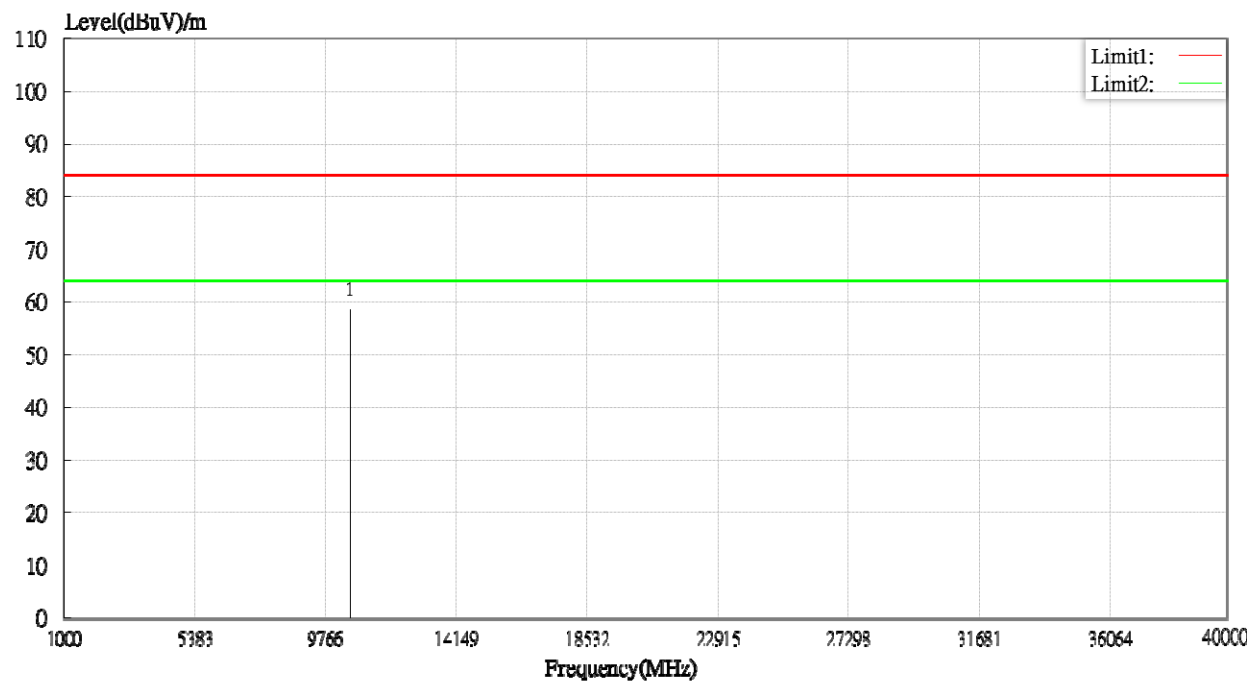


Non HT80 mode 5290 MHz Vertical XOR

PK

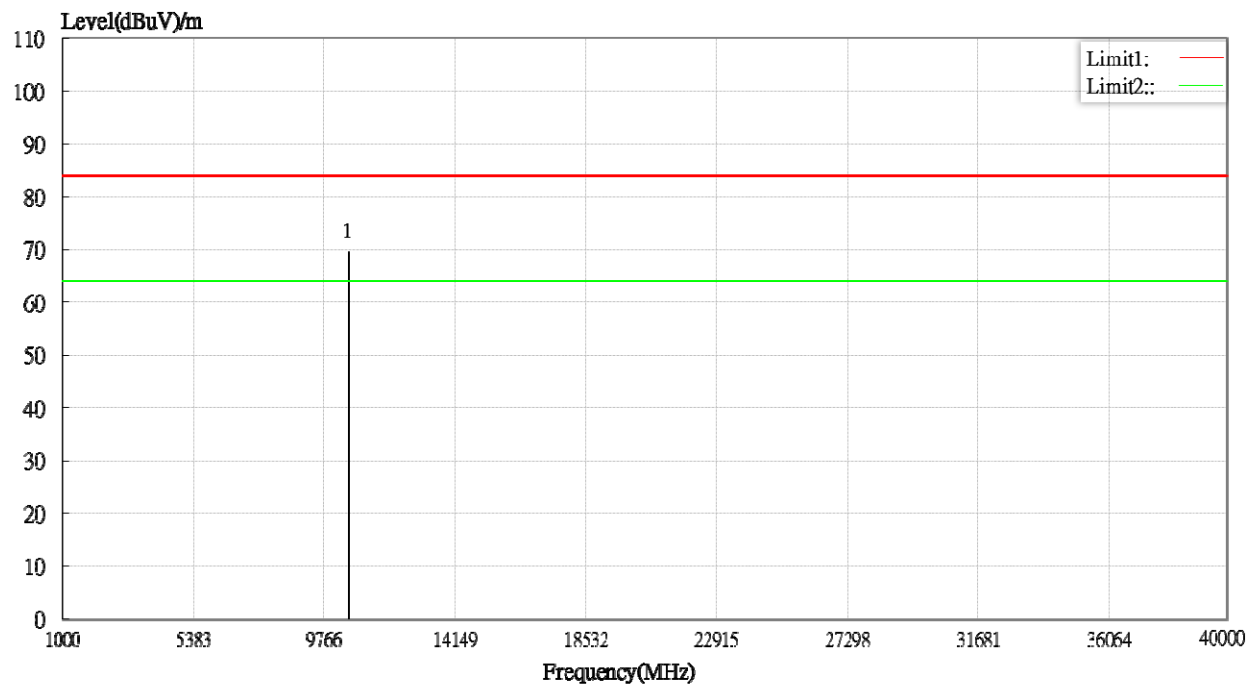


AVG

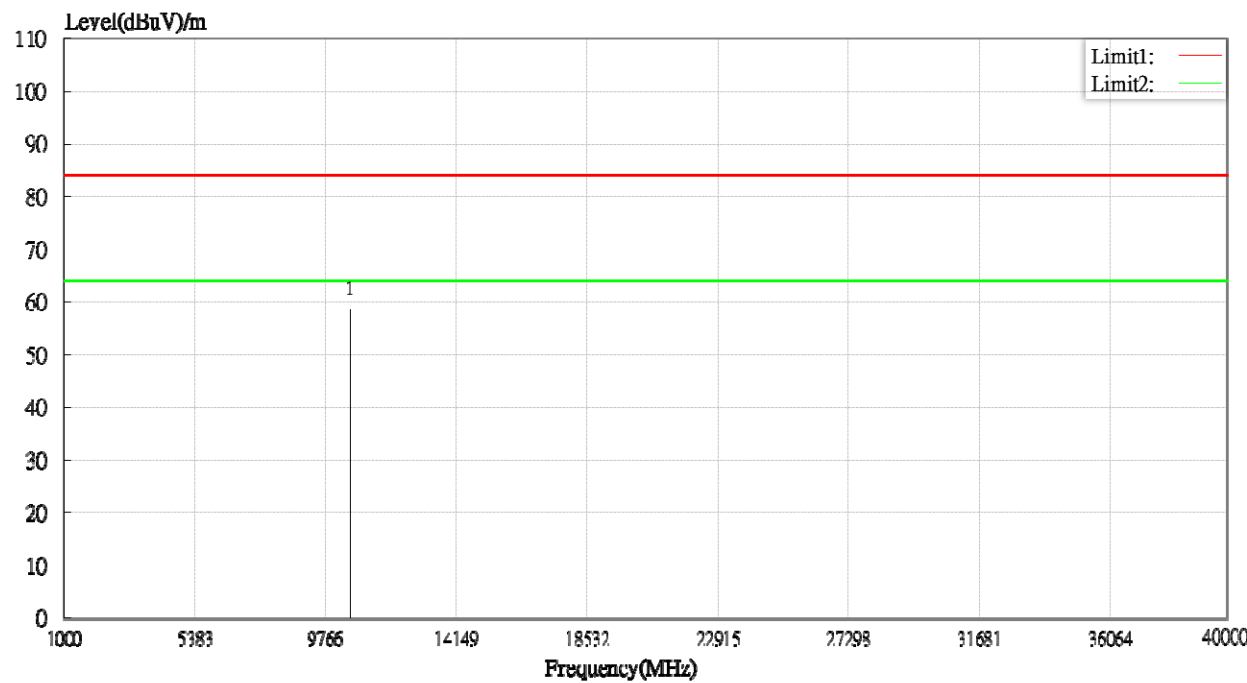


VHT80 mode 5290 MHz Horizontal XOR

PK

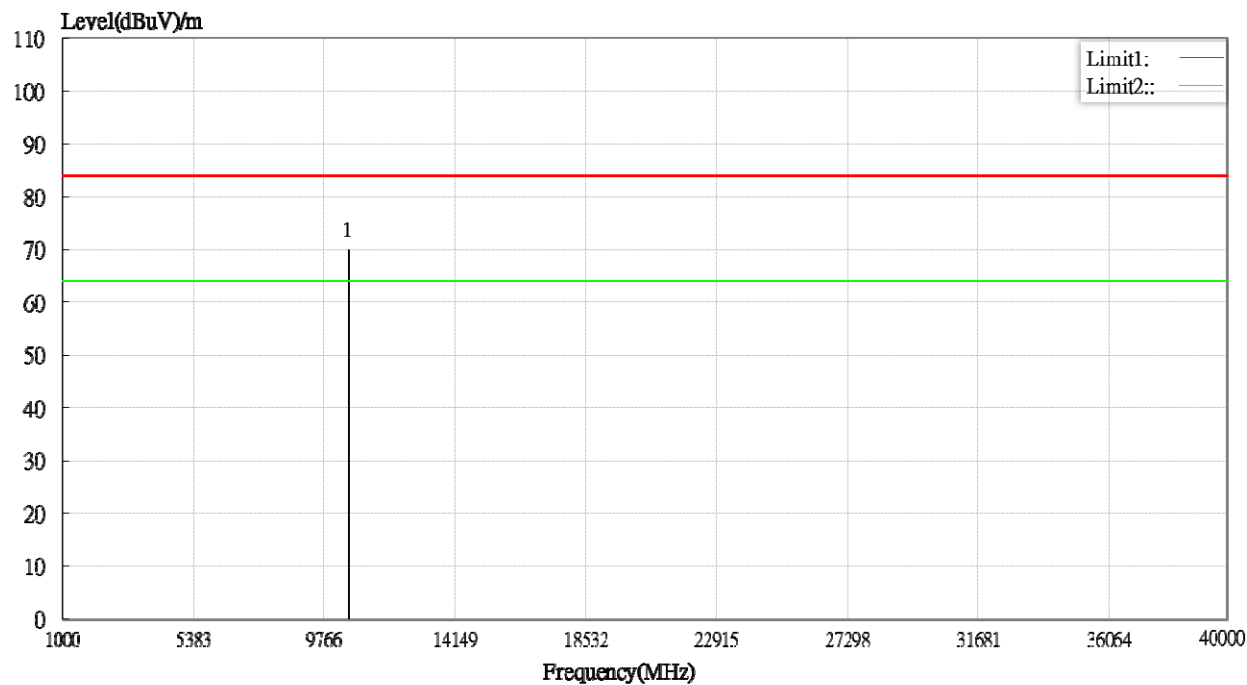


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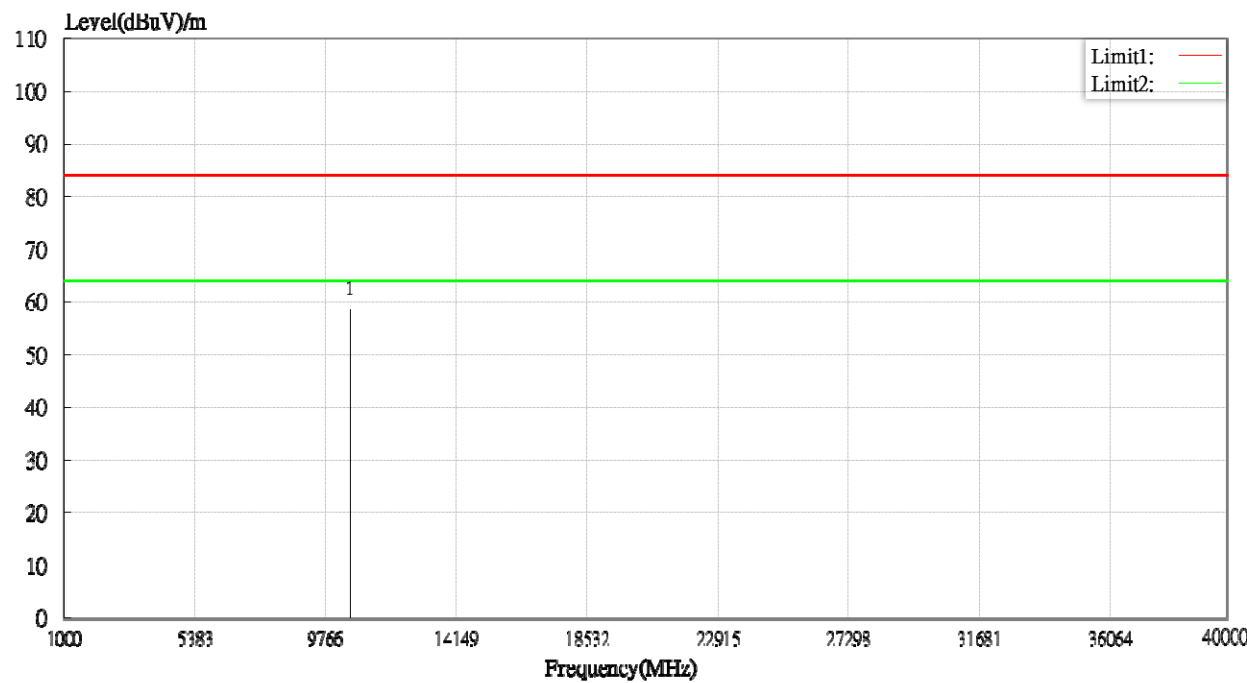


VHT80 mode 5290 MHz Vertical XOR

PK

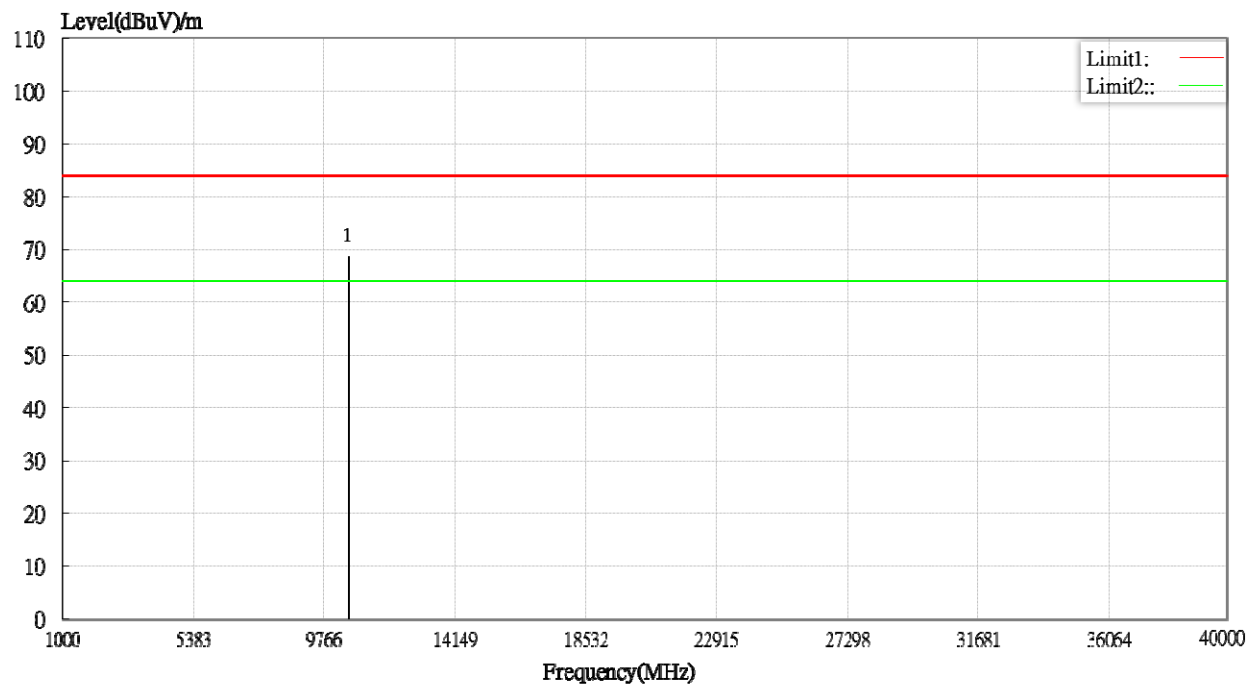


AVG

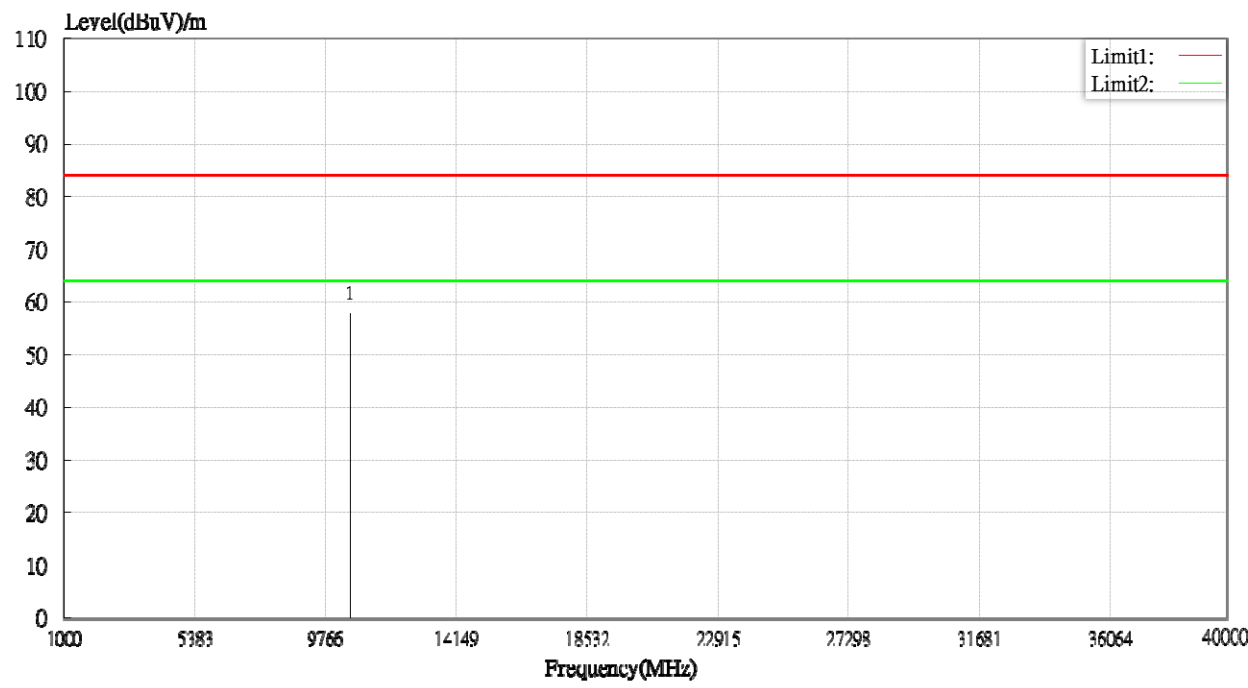


HE80 mode 5290 MHz Horizontal XOR

PK

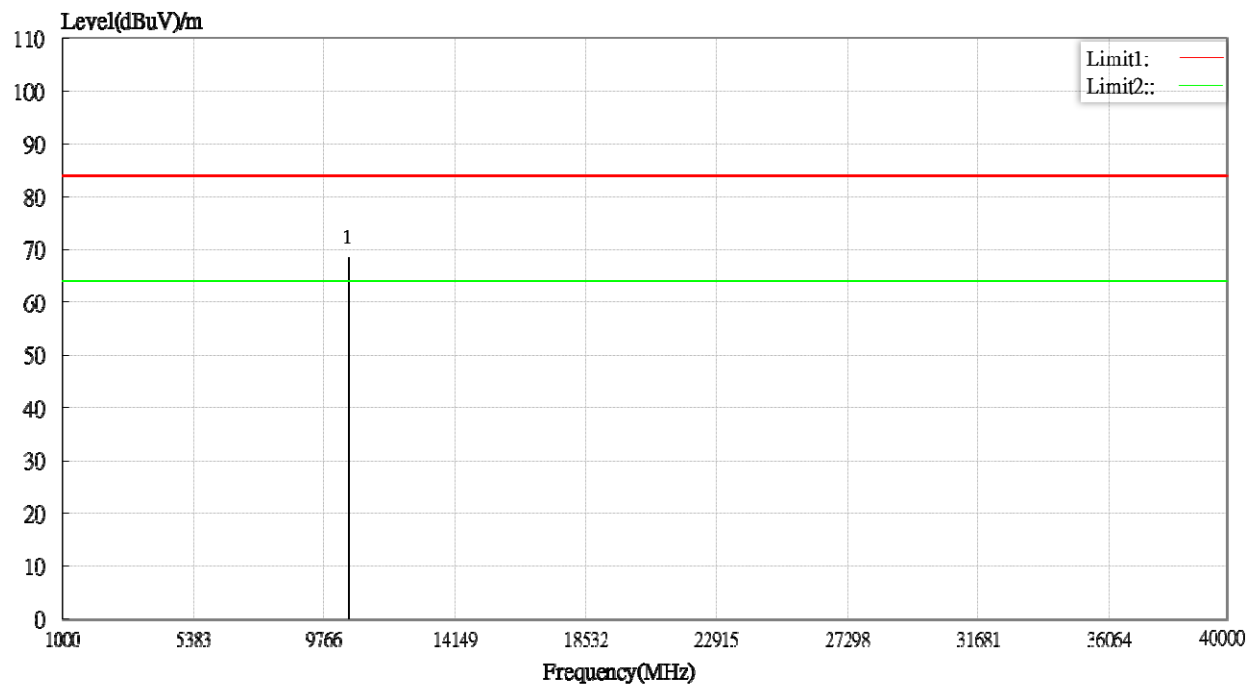


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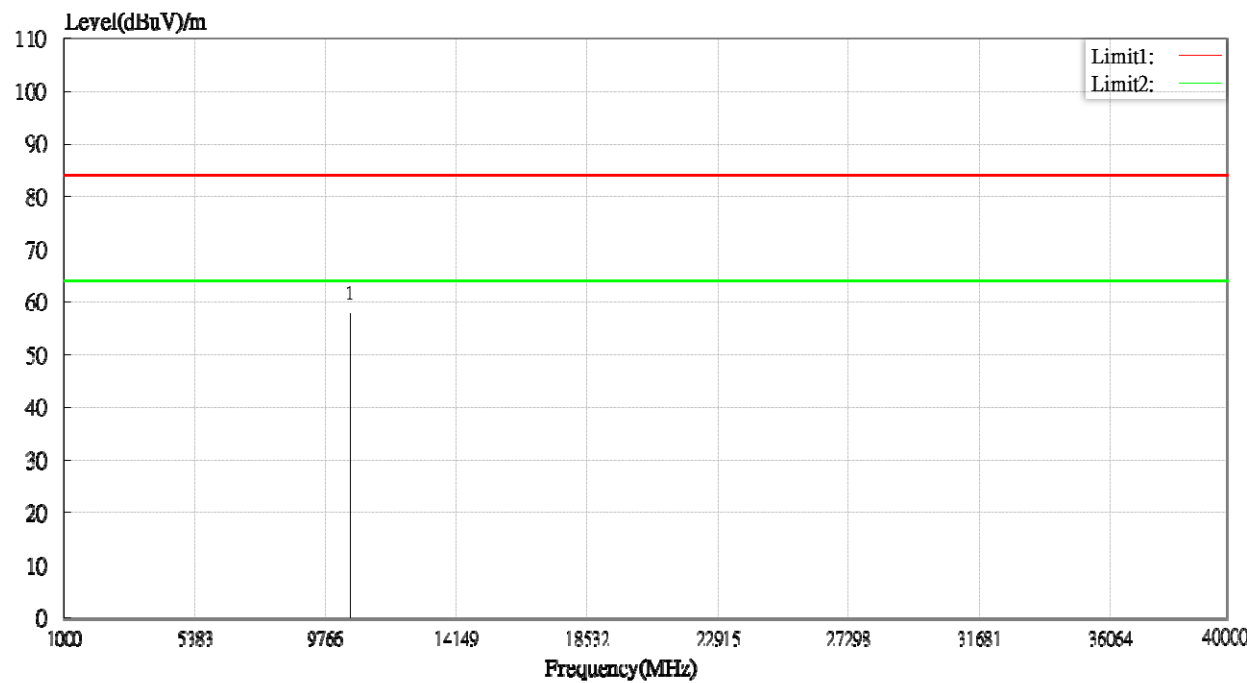


HE80 mode 5290 MHz Vertical XOR

PK

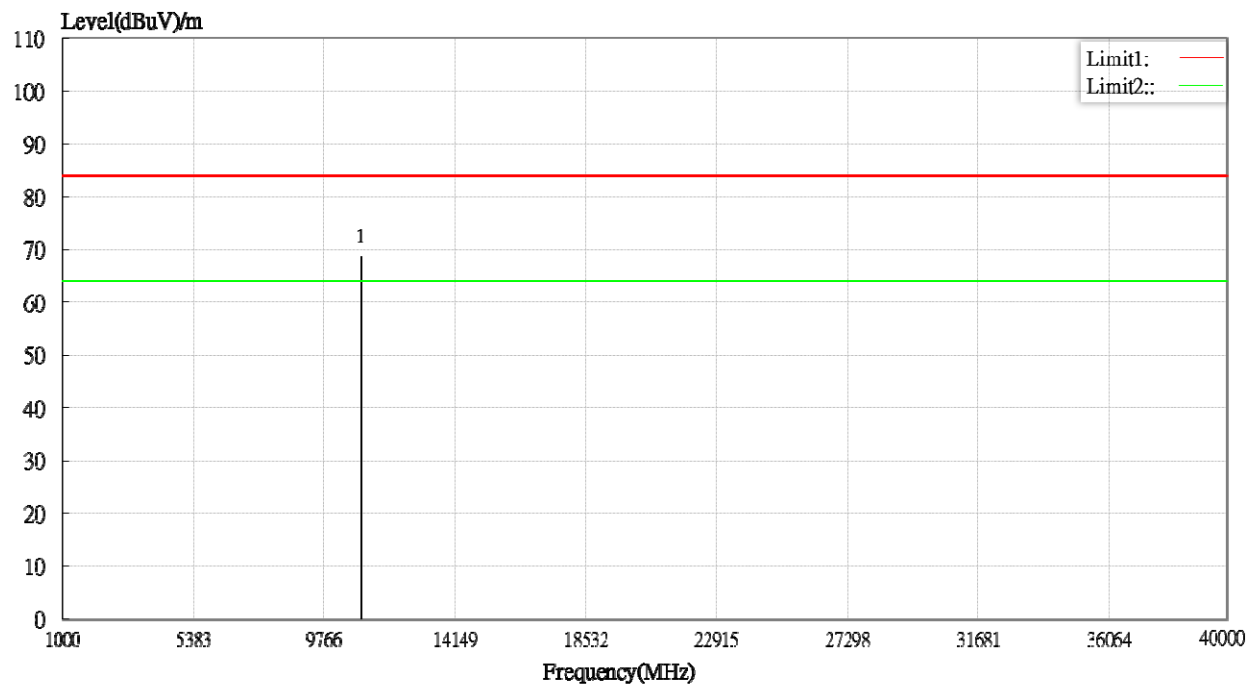


AVG

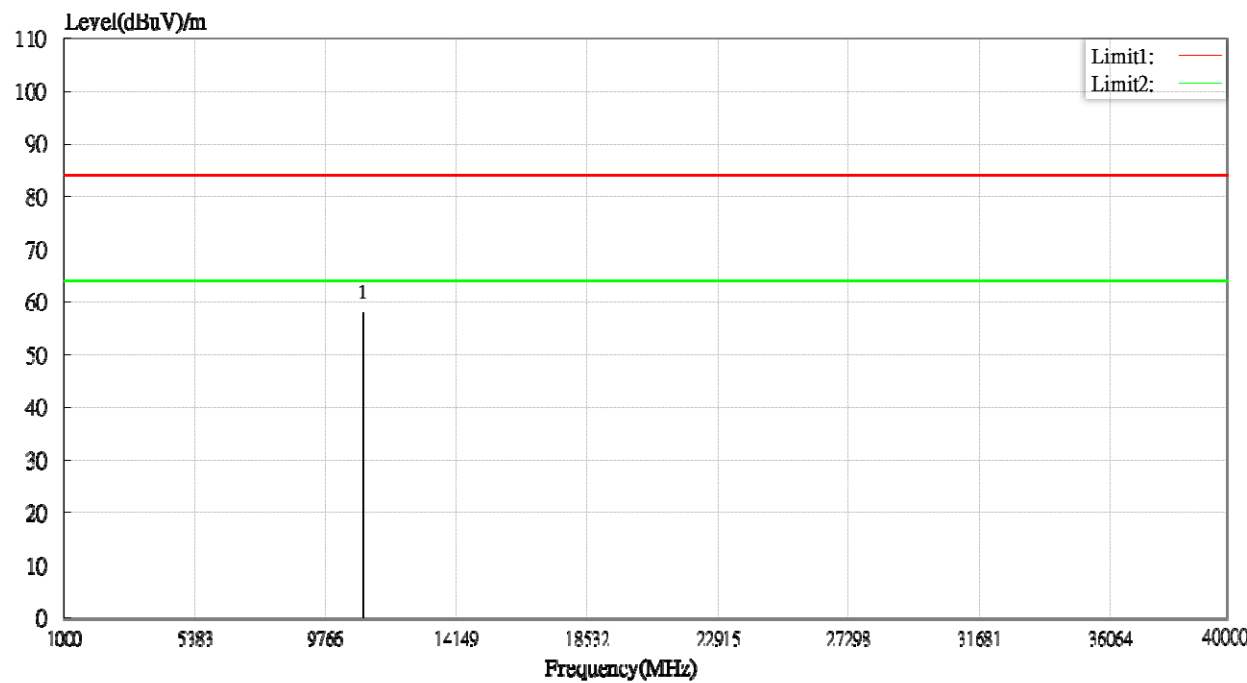


Non HT20 mode 5500 MHz Horizontal XOR

PK

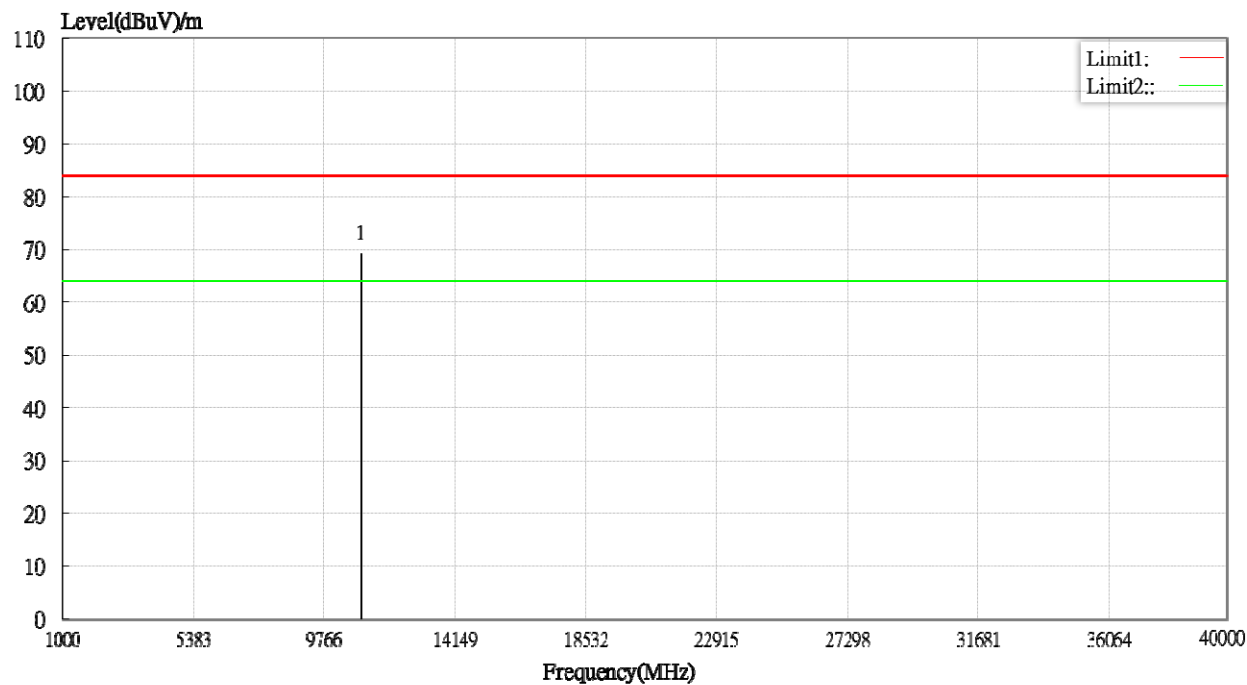


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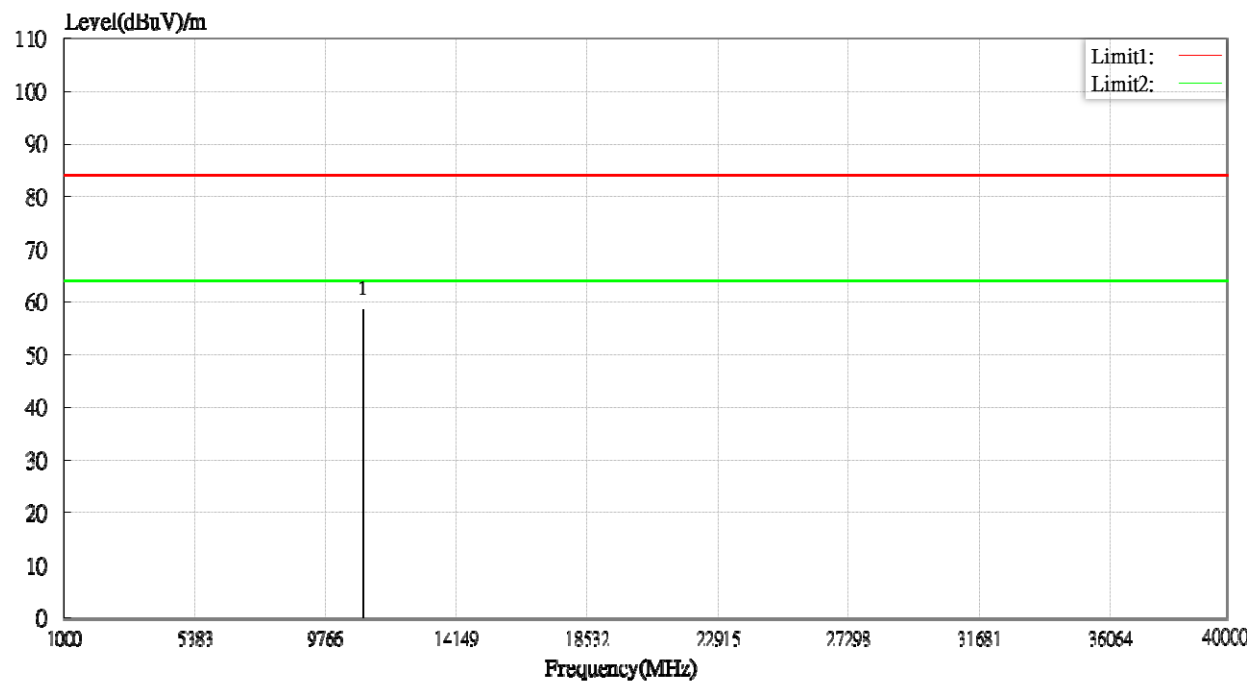


Non HT20 mode 5500 MHz Vertical XOR

PK

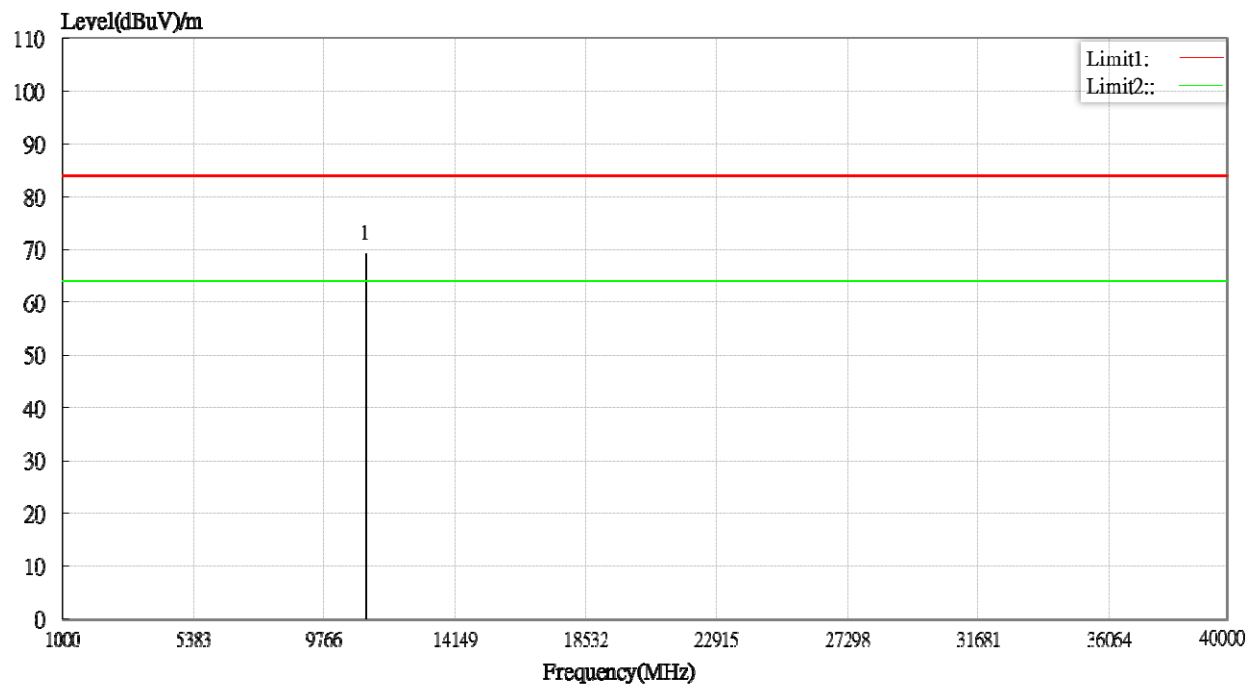


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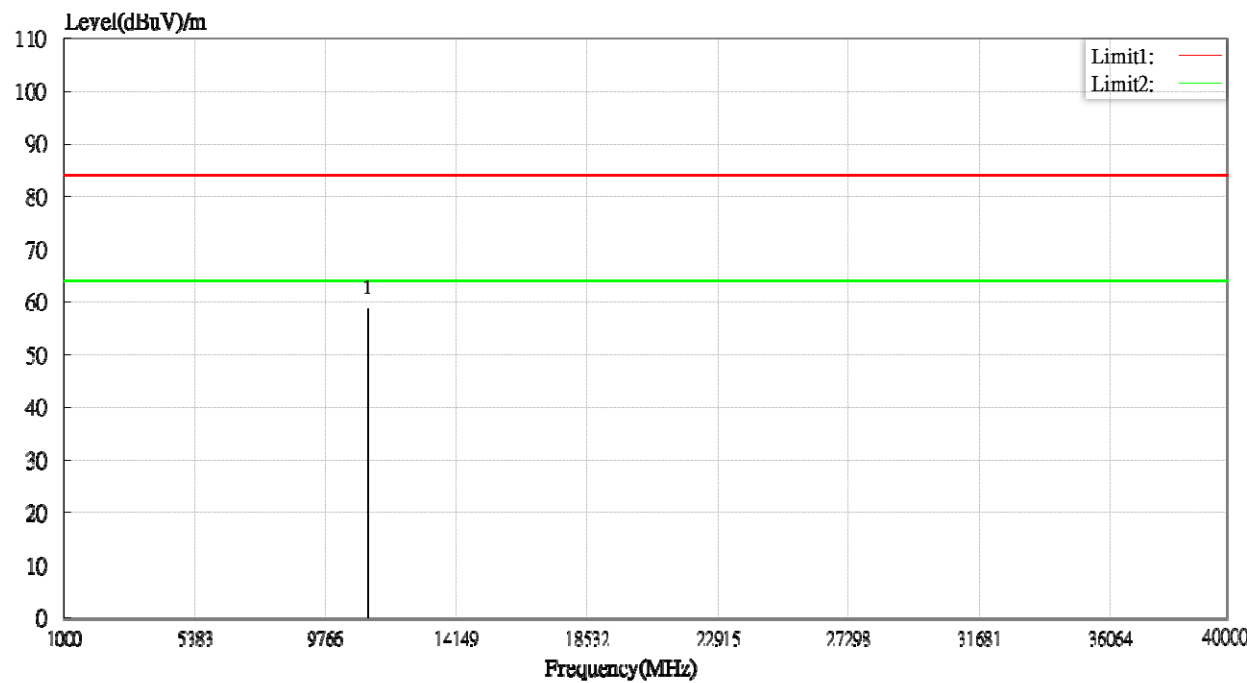


Non HT20 mode 5580 MHz Horizontal XOR

PK

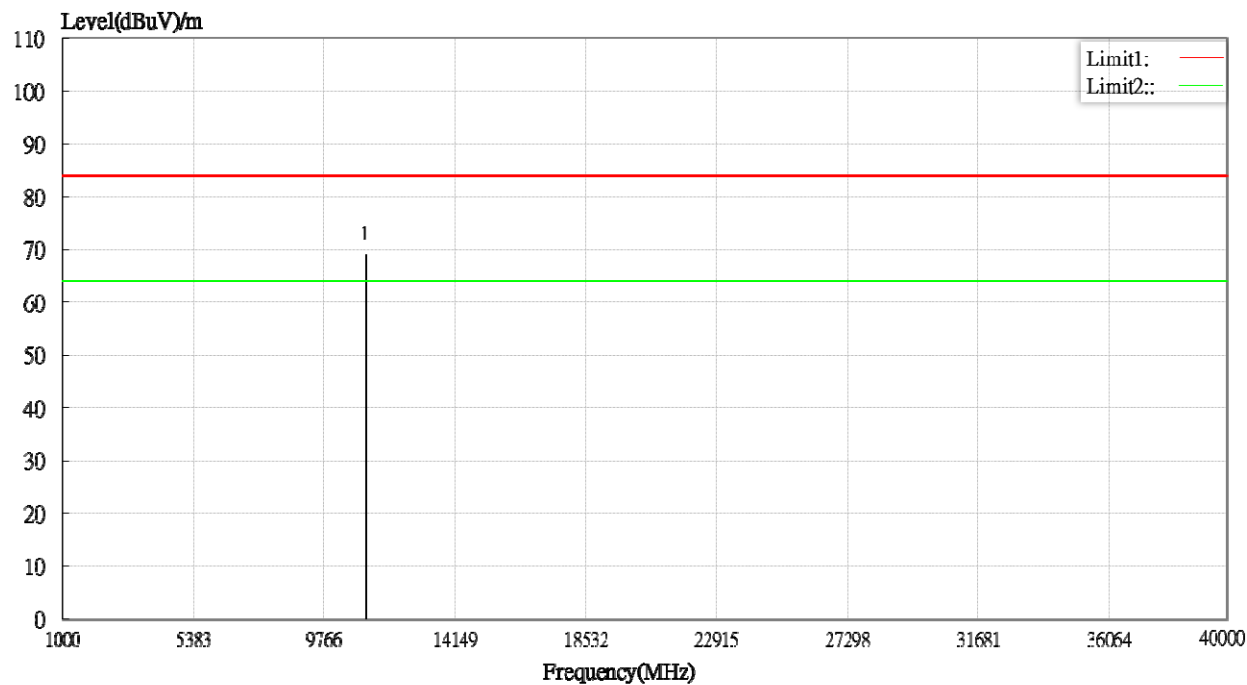


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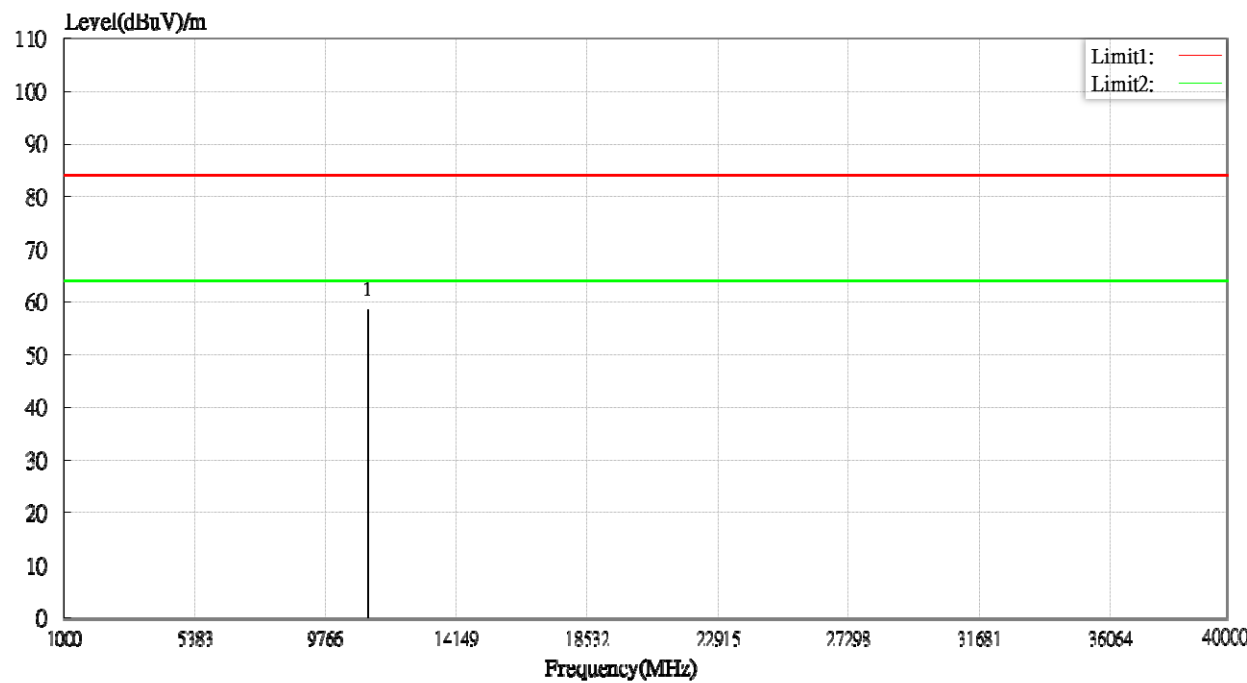


Non HT20 mode 5580 MHz Vertical XOR

PK

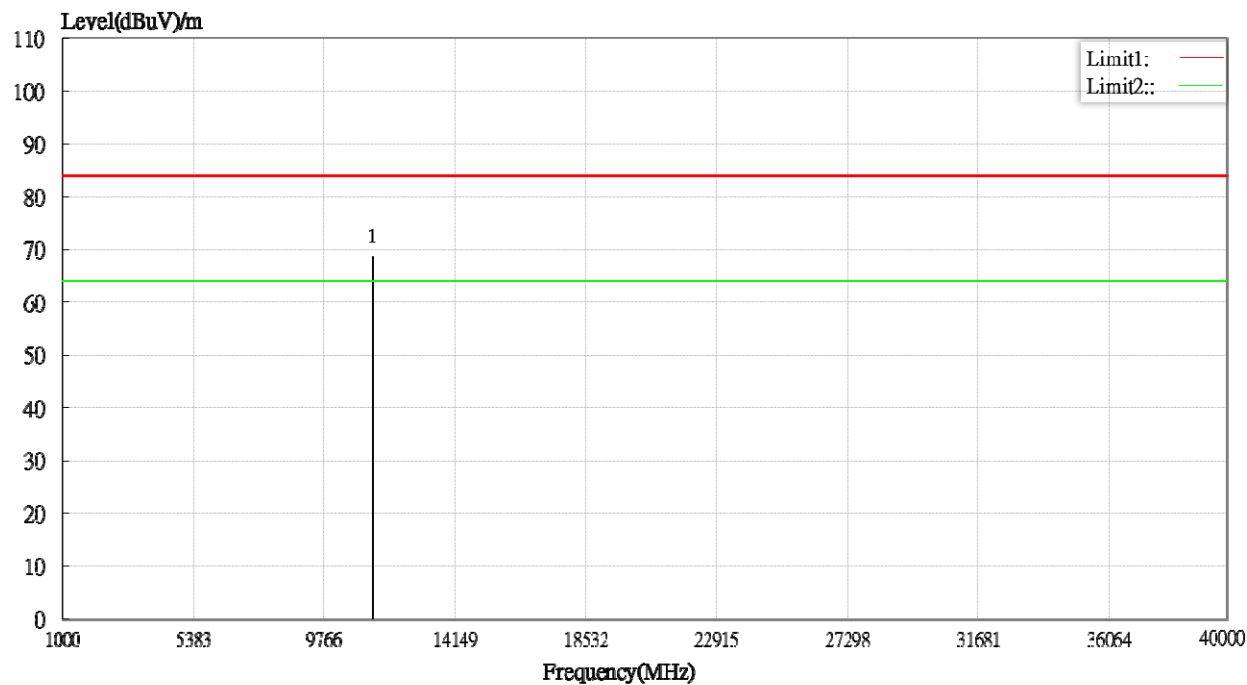


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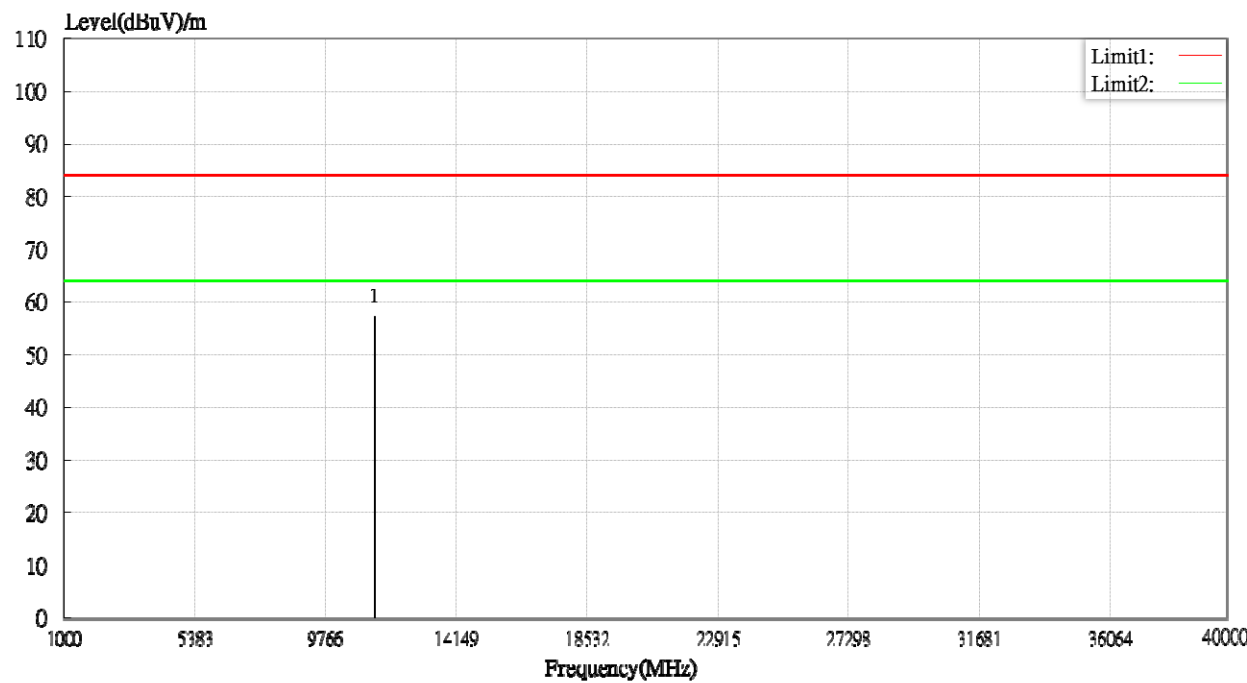


Non HT20 mode 5700 MHz Horizontal XOR

PK

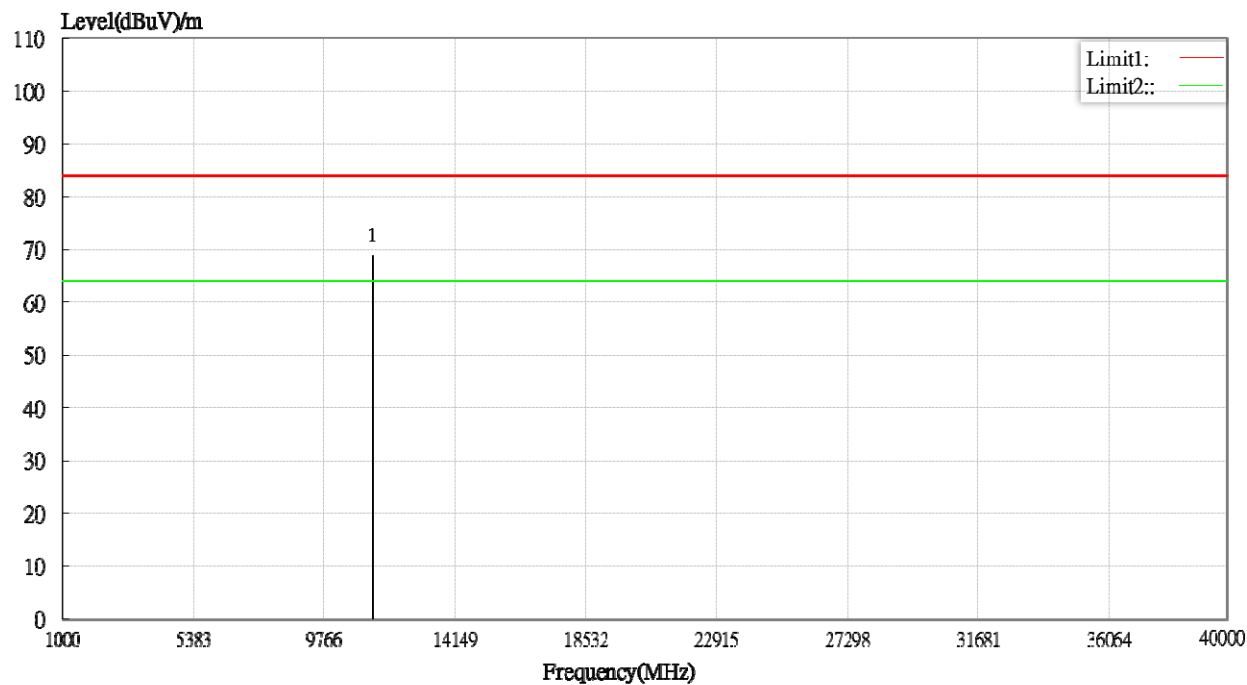


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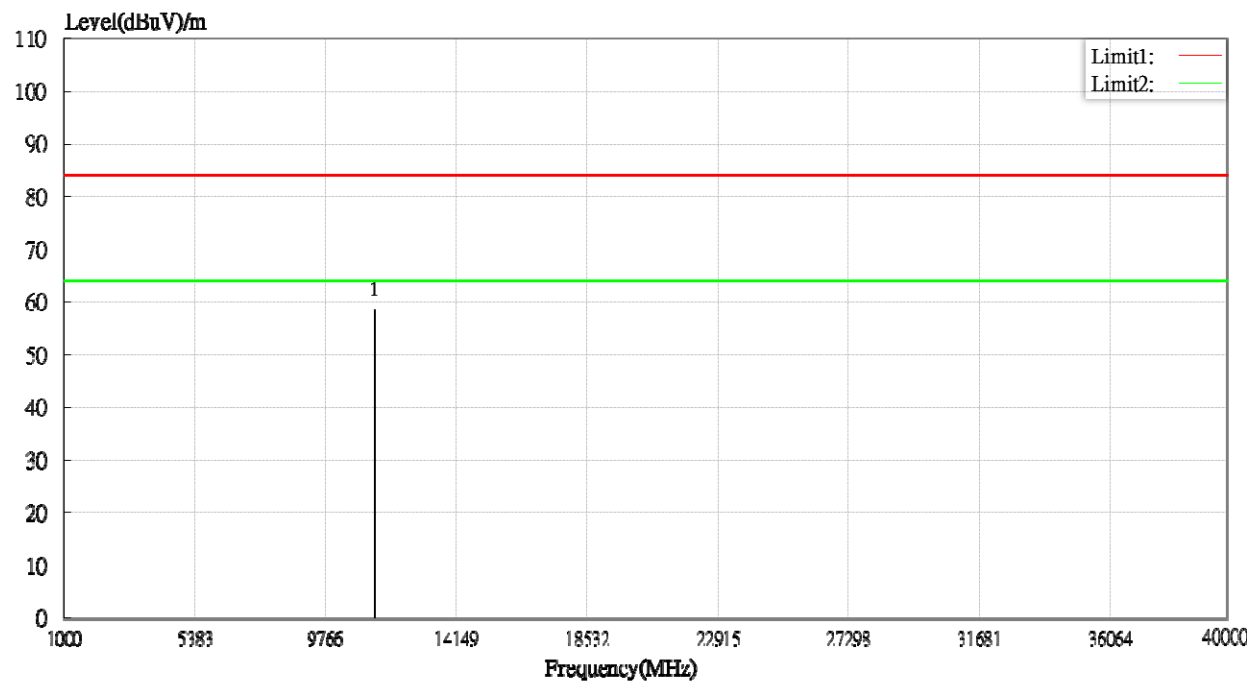


Non HT20 mode 5700 MHz Vertical XOR

PK

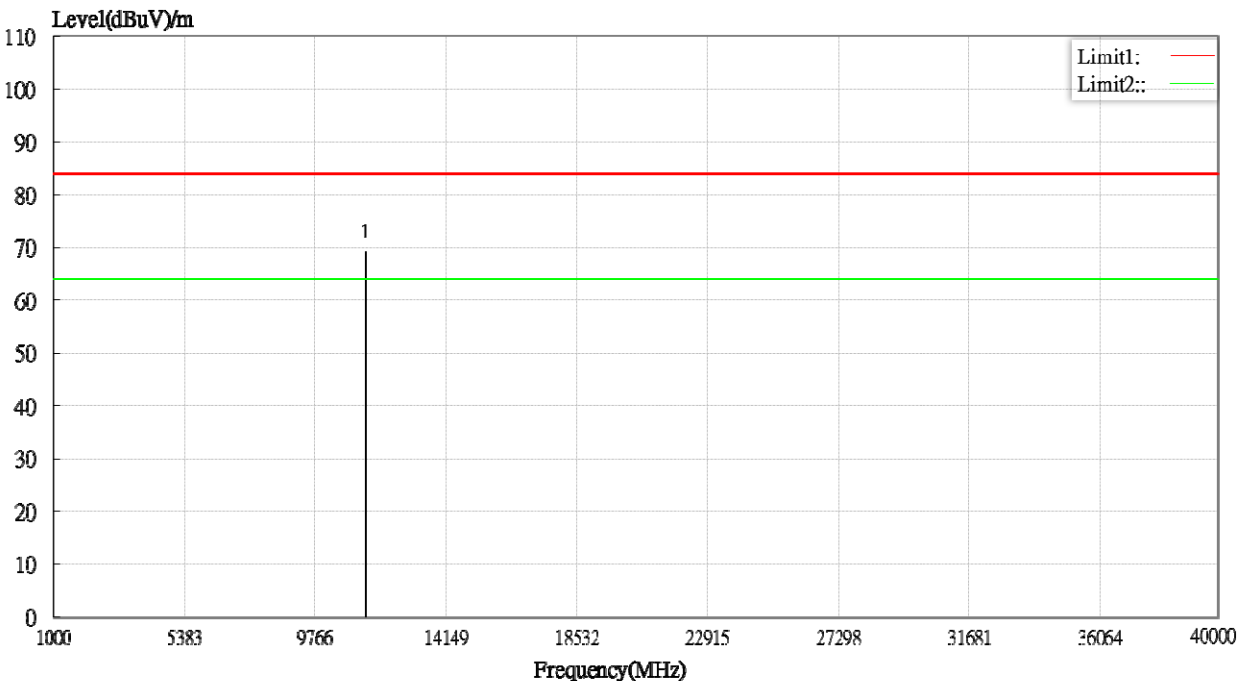


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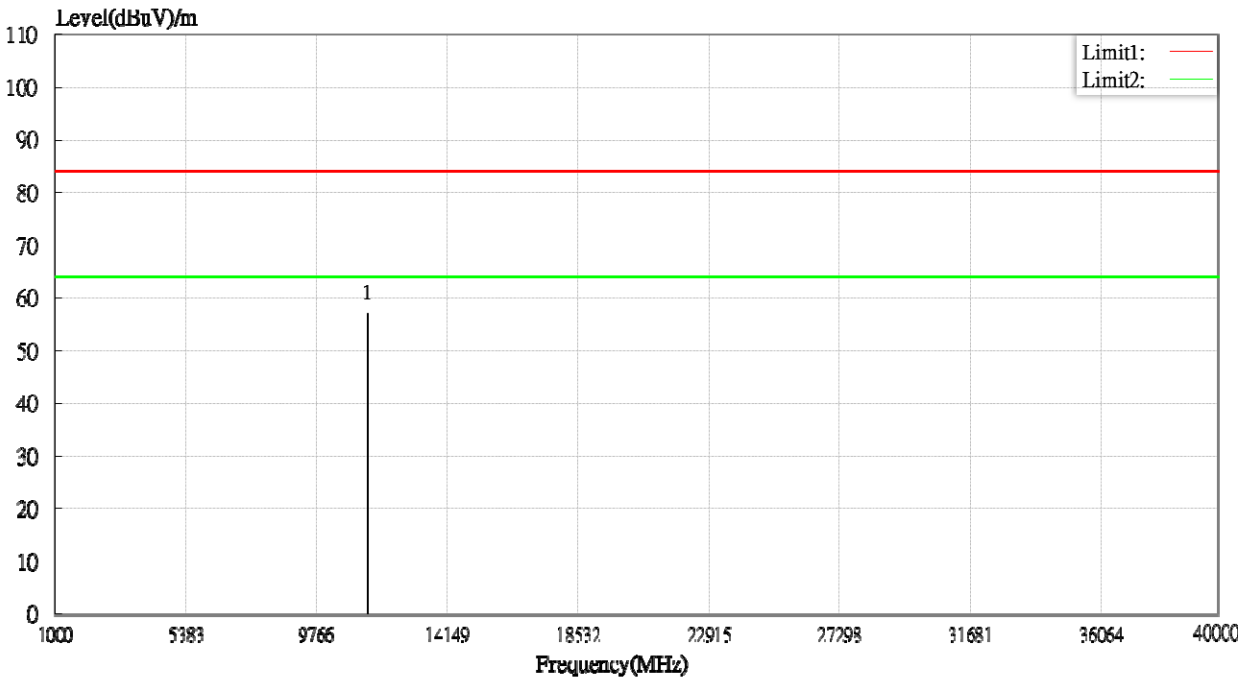


Non HT20 mode 5720 MHz Horizontal XOR

PK

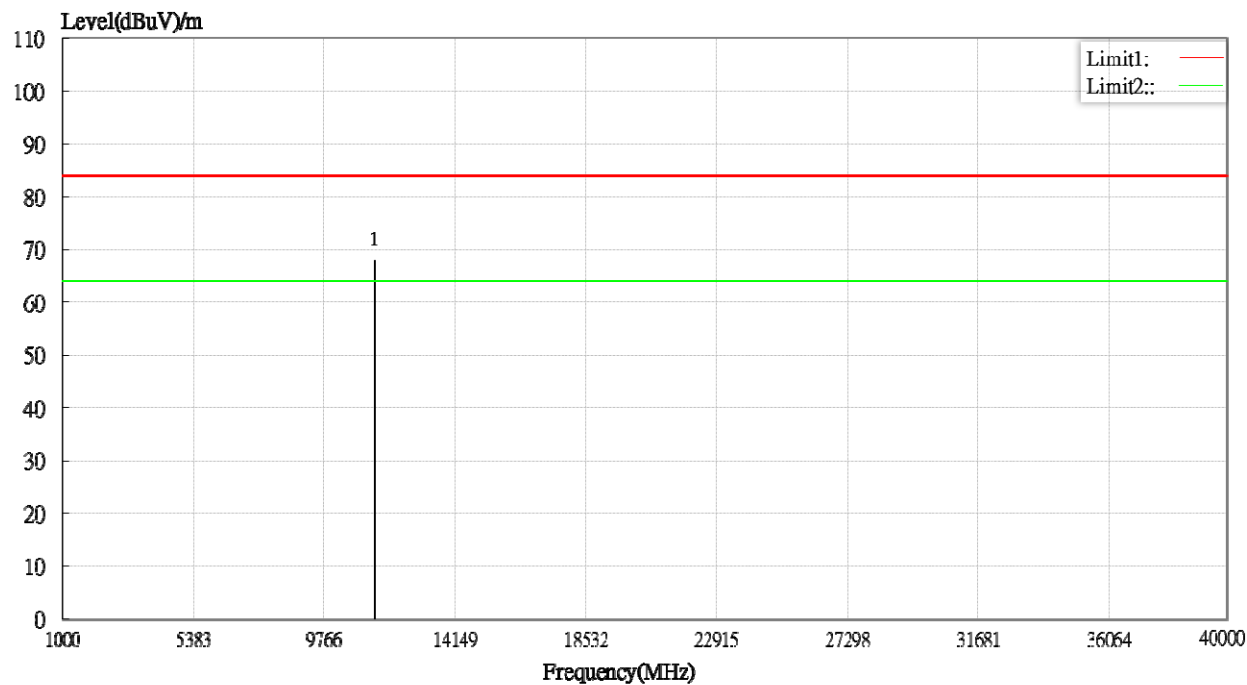


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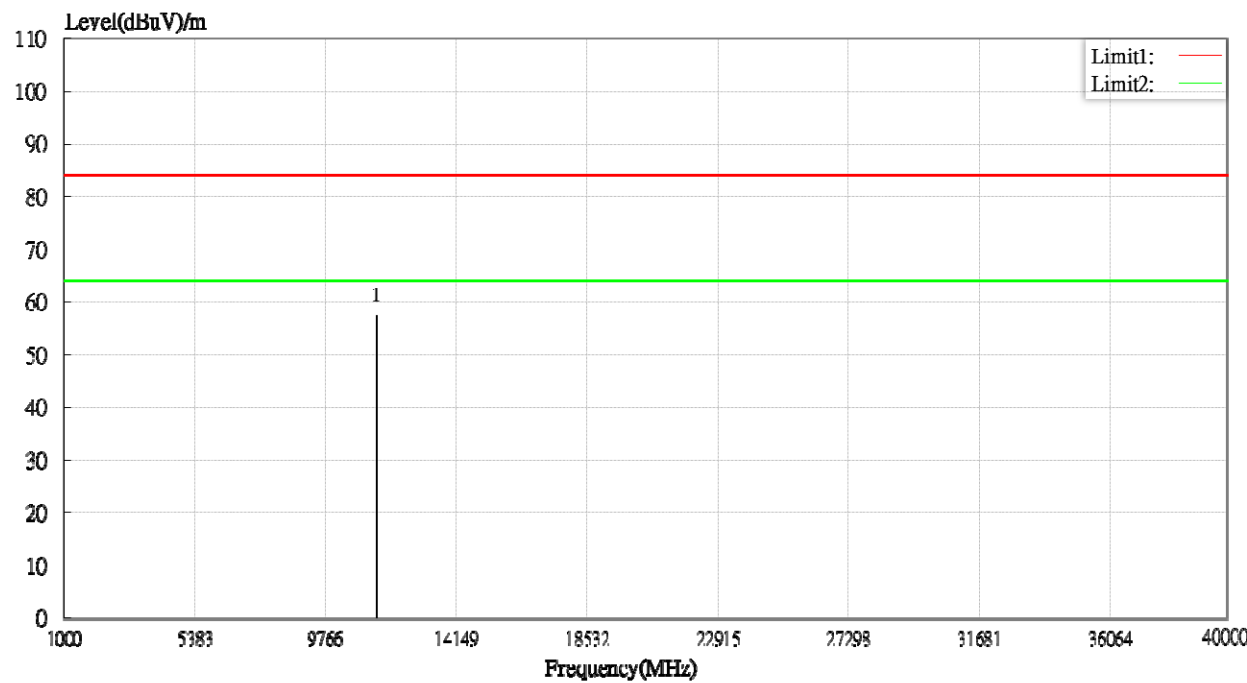


Non HT20 mode 5720 MHz Vertical XOR

PK

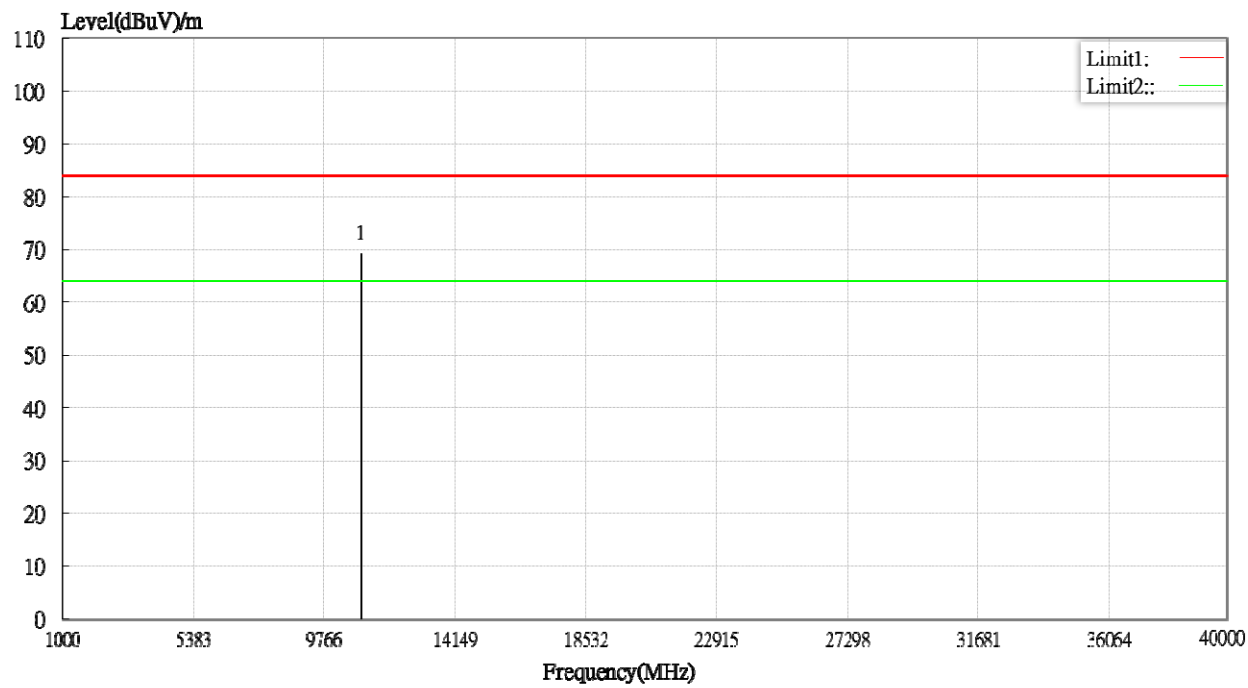


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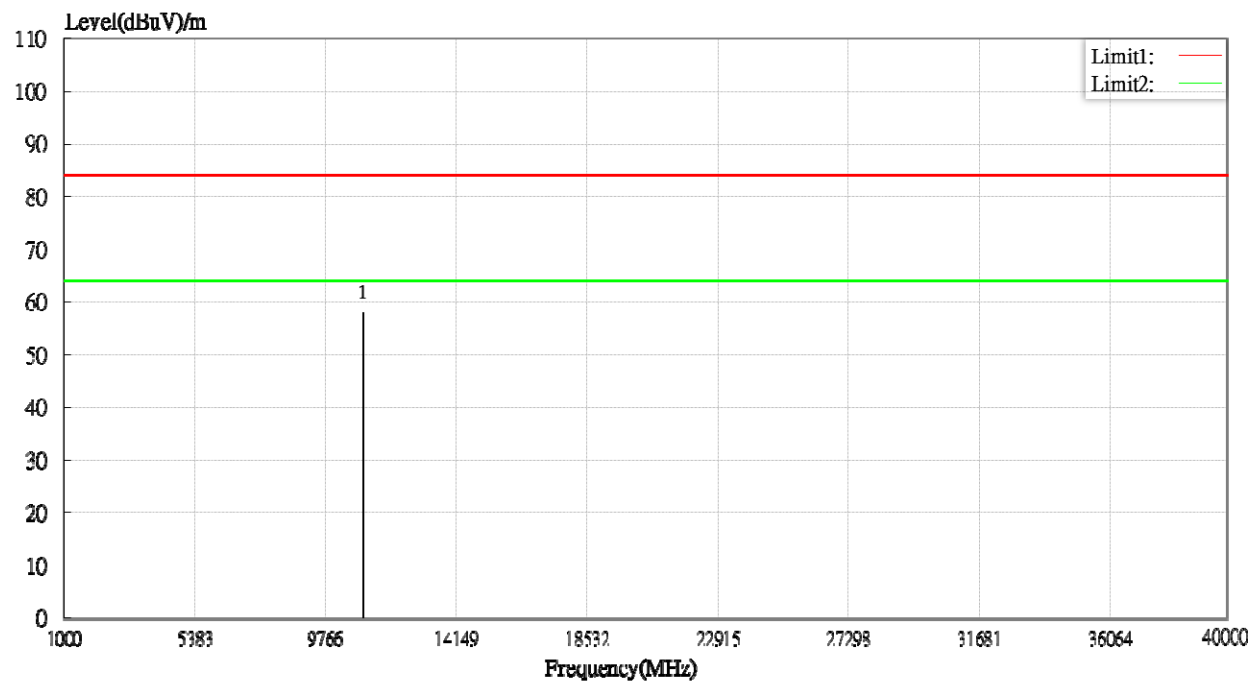


HT/VHT20 mode 5500 MHz Horizontal XOR

PK

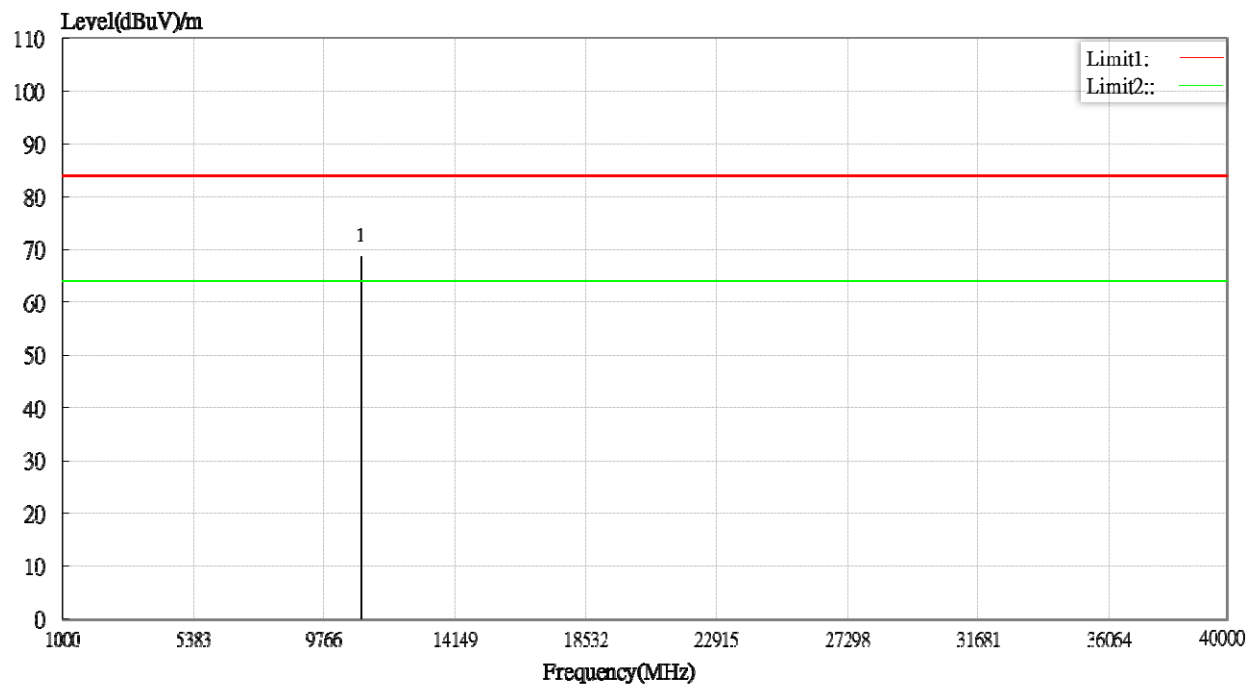


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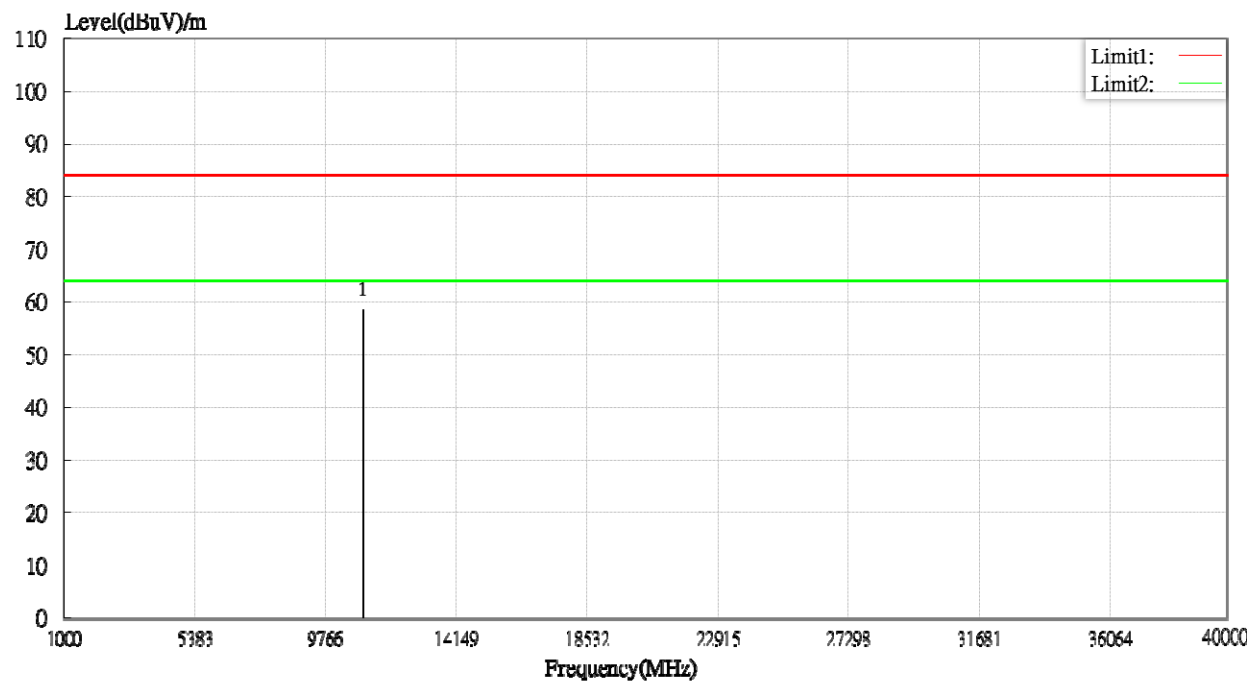


HT/VHT20 mode 5500 MHz Vertical XOR

PK

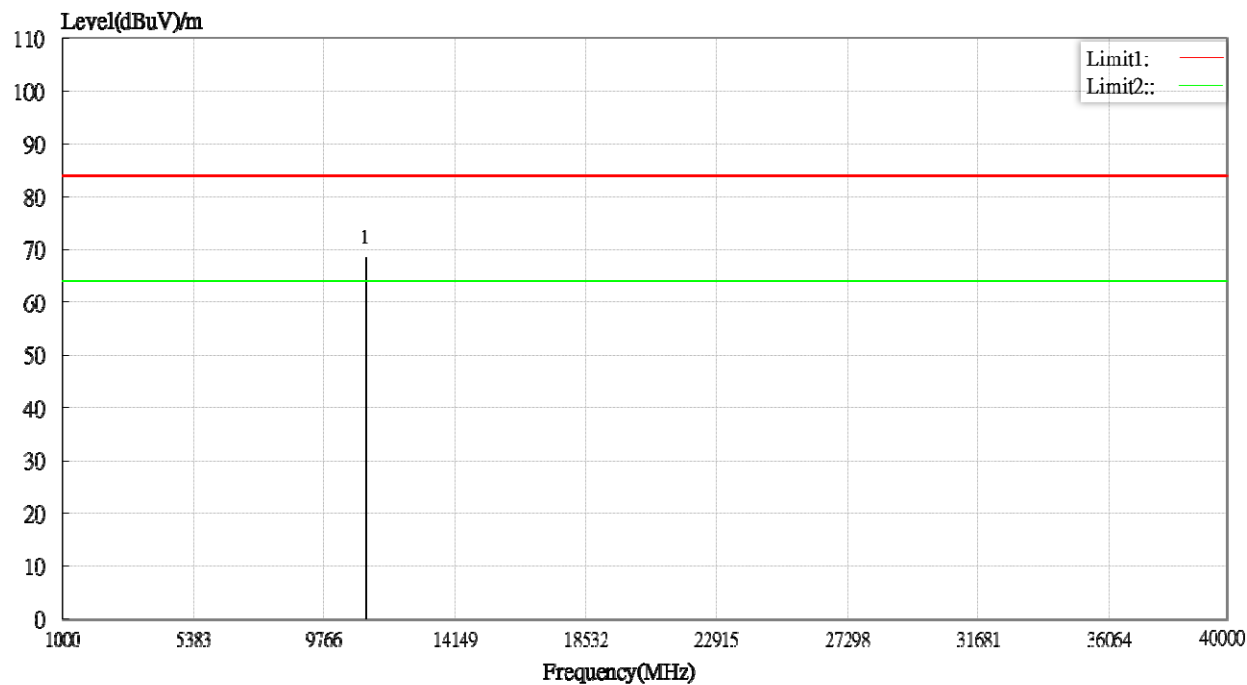


AVG

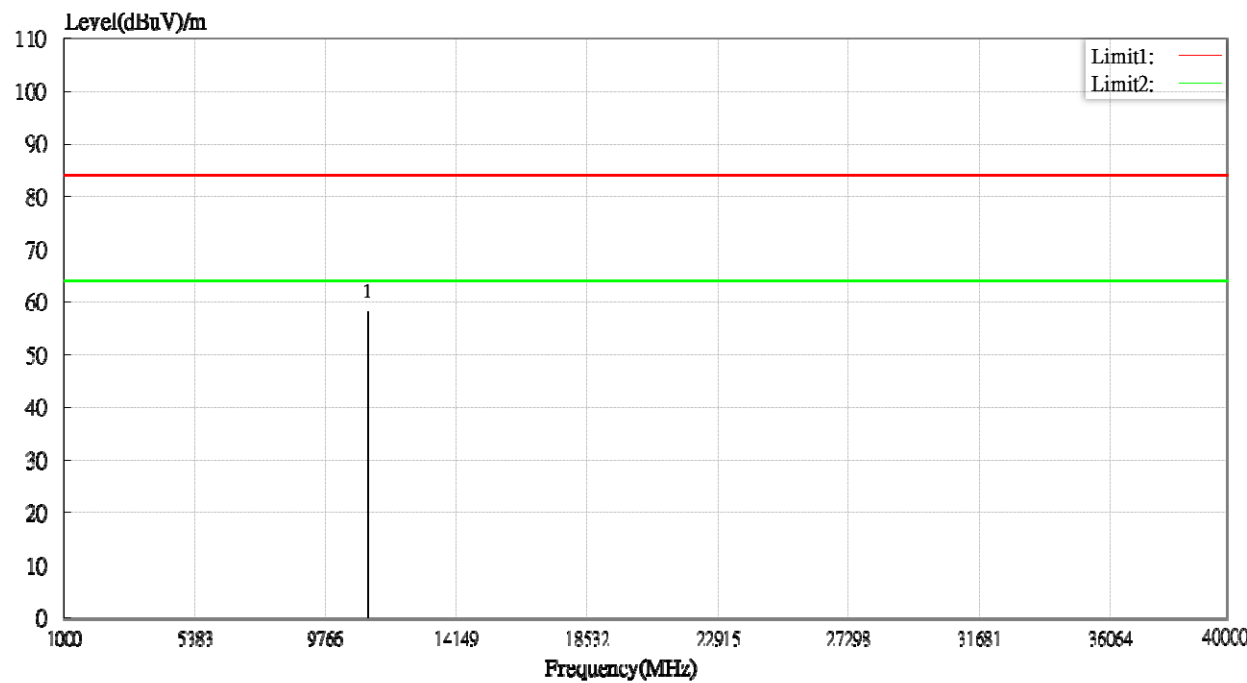


HT/VHT20 mode 5580 MHz Horizontal XOR

PK

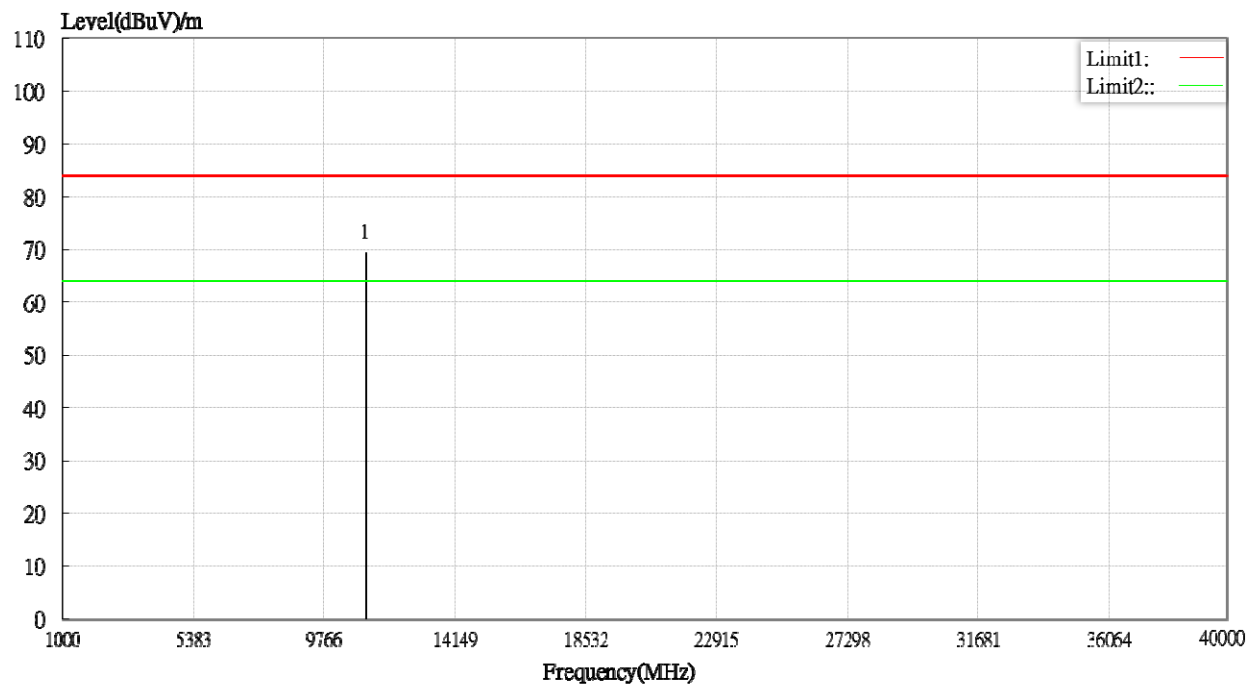


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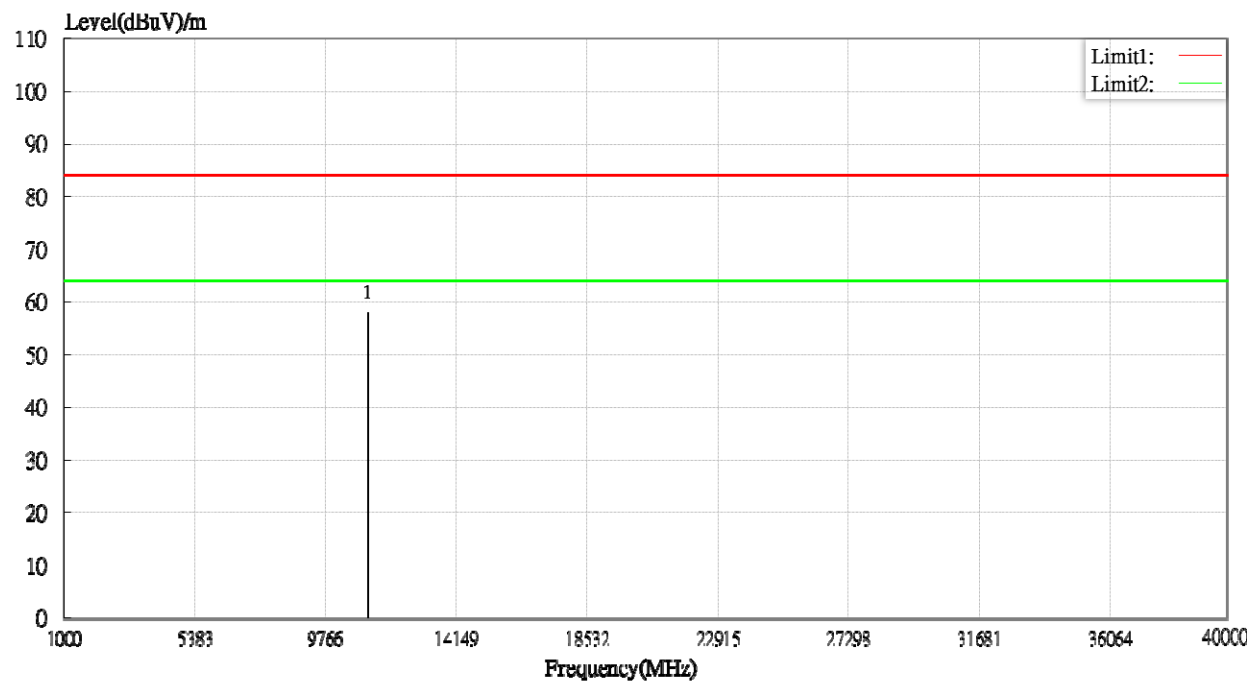


HT/VHT20 mode 5580 MHz Vertical XOR

PK

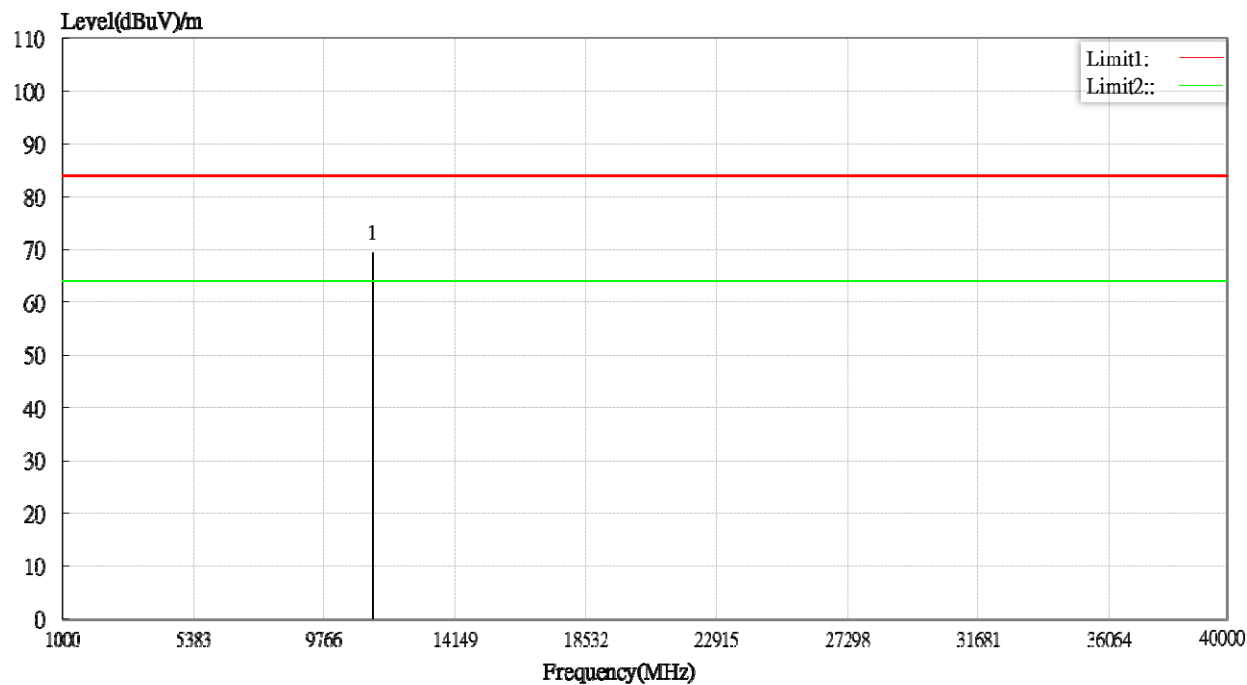


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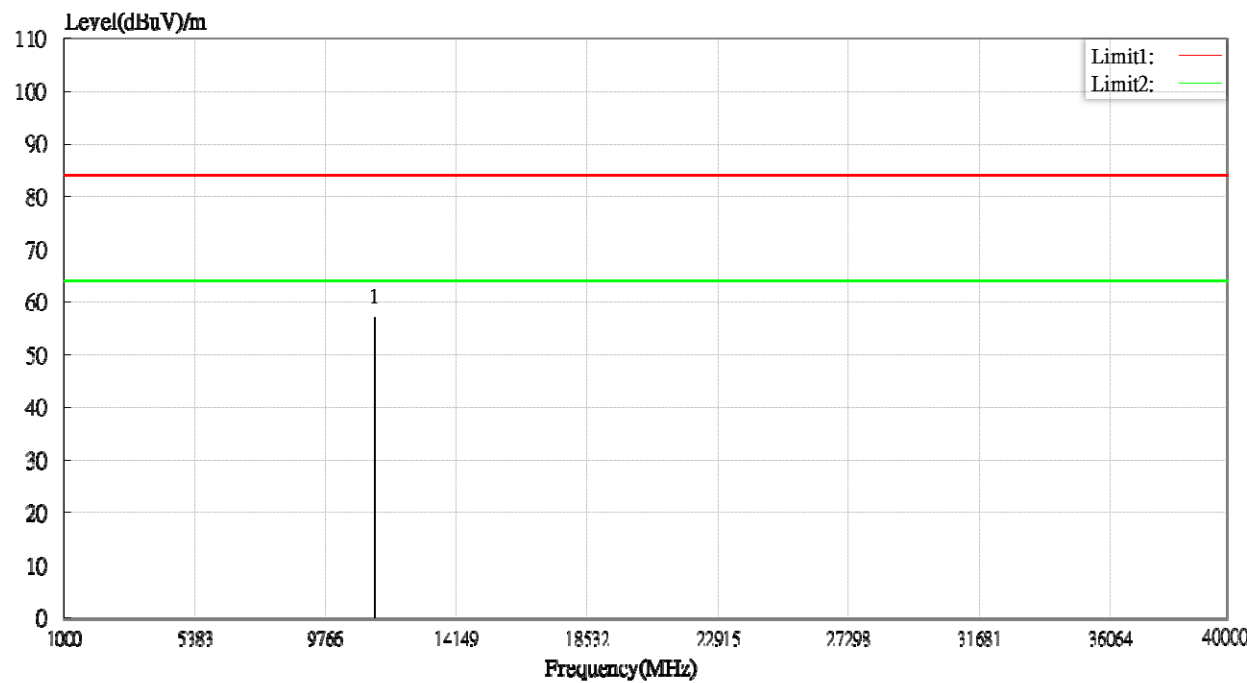


HT/VHT20 mode 5700 MHz Horizontal XOR

PK

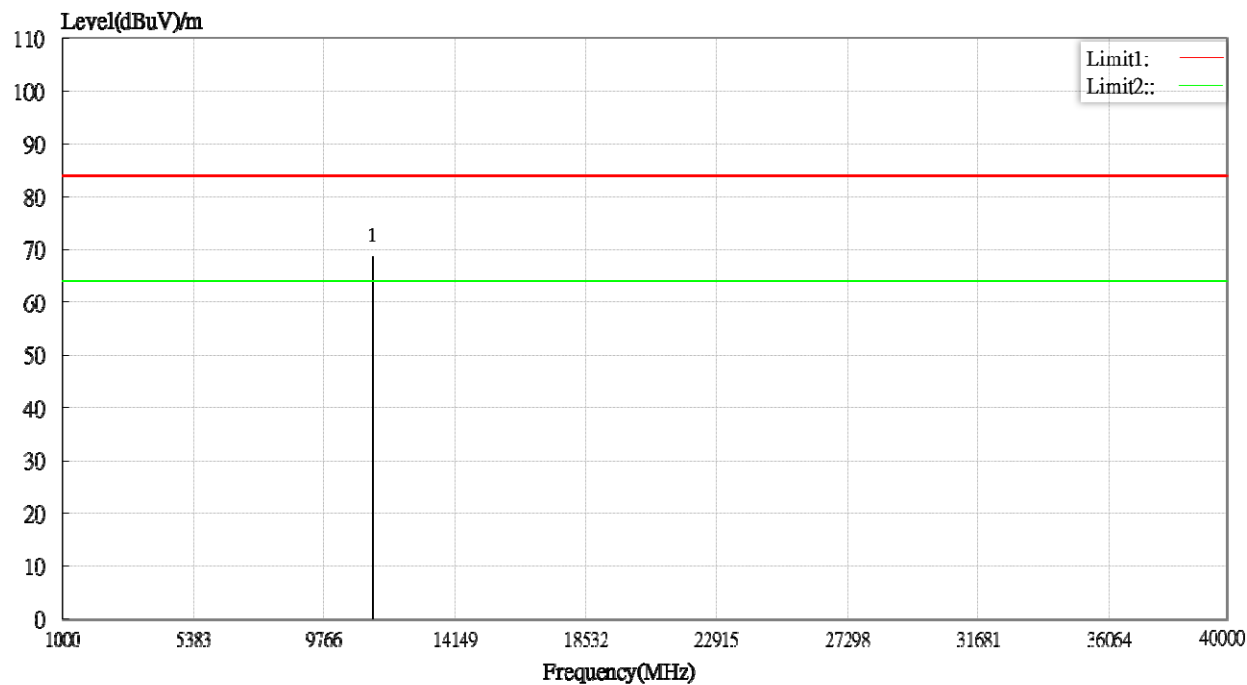


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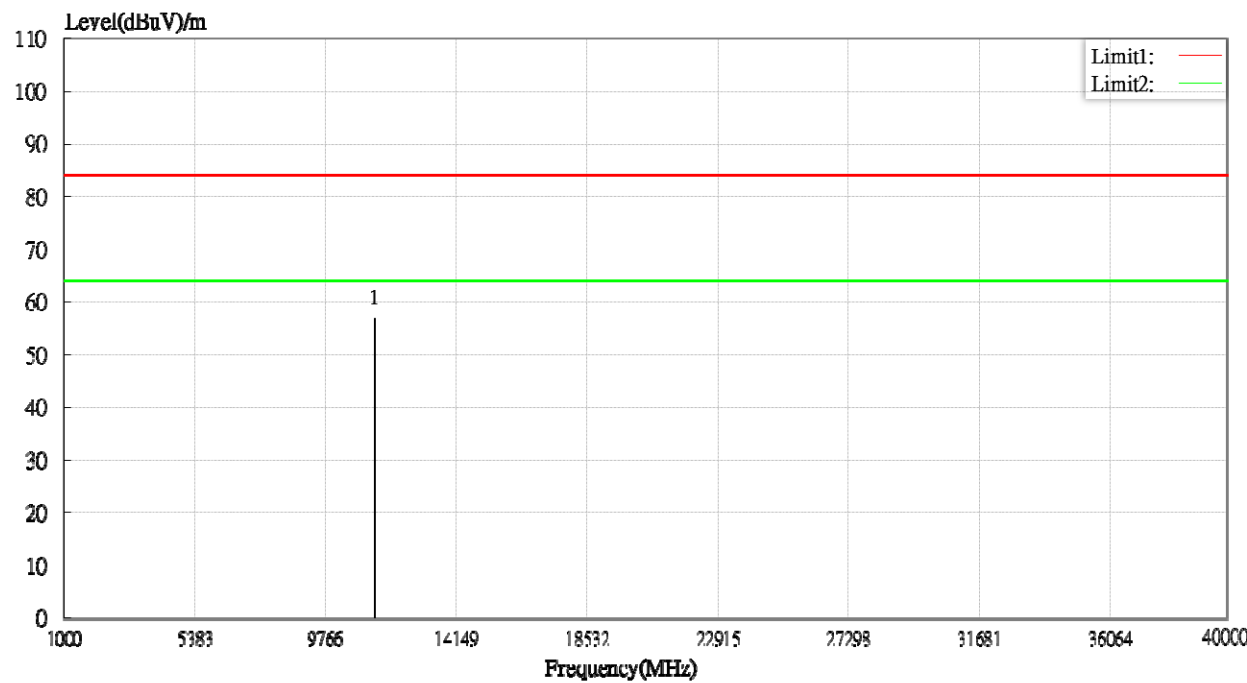


HT/VHT20 mode 5700 MHz Vertical XOR

PK

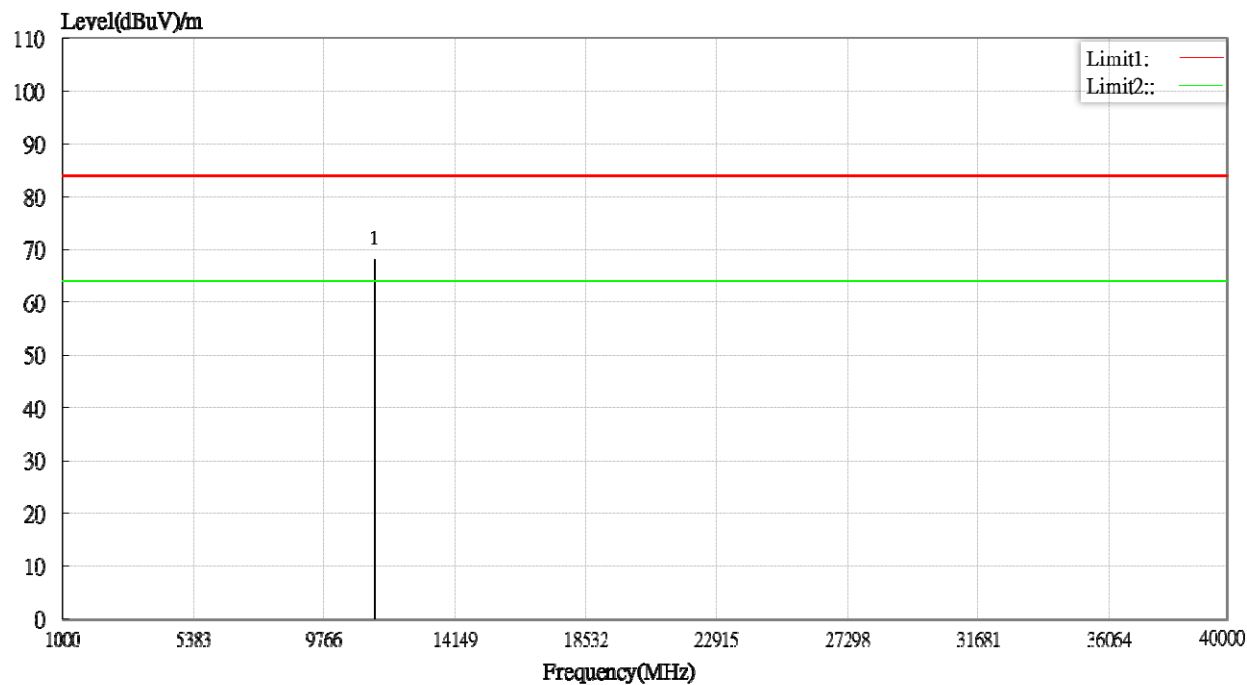


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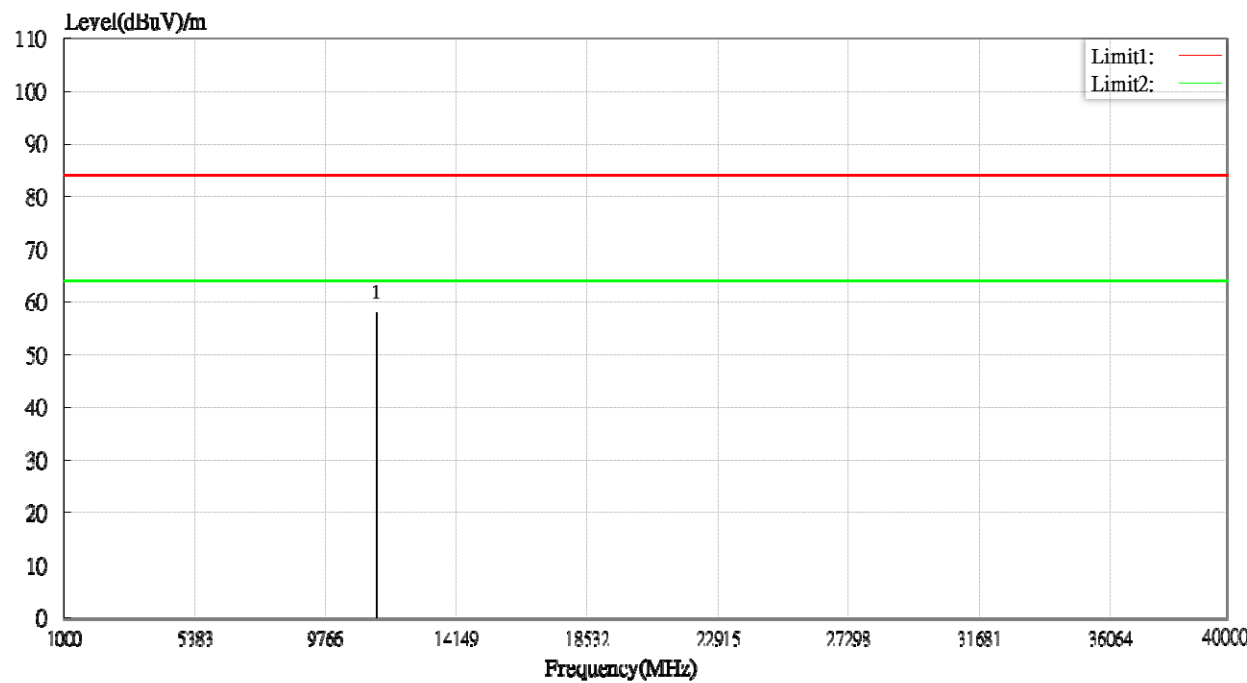


HT/VHT20 mode 5720 MHz Horizontal XOR

PK

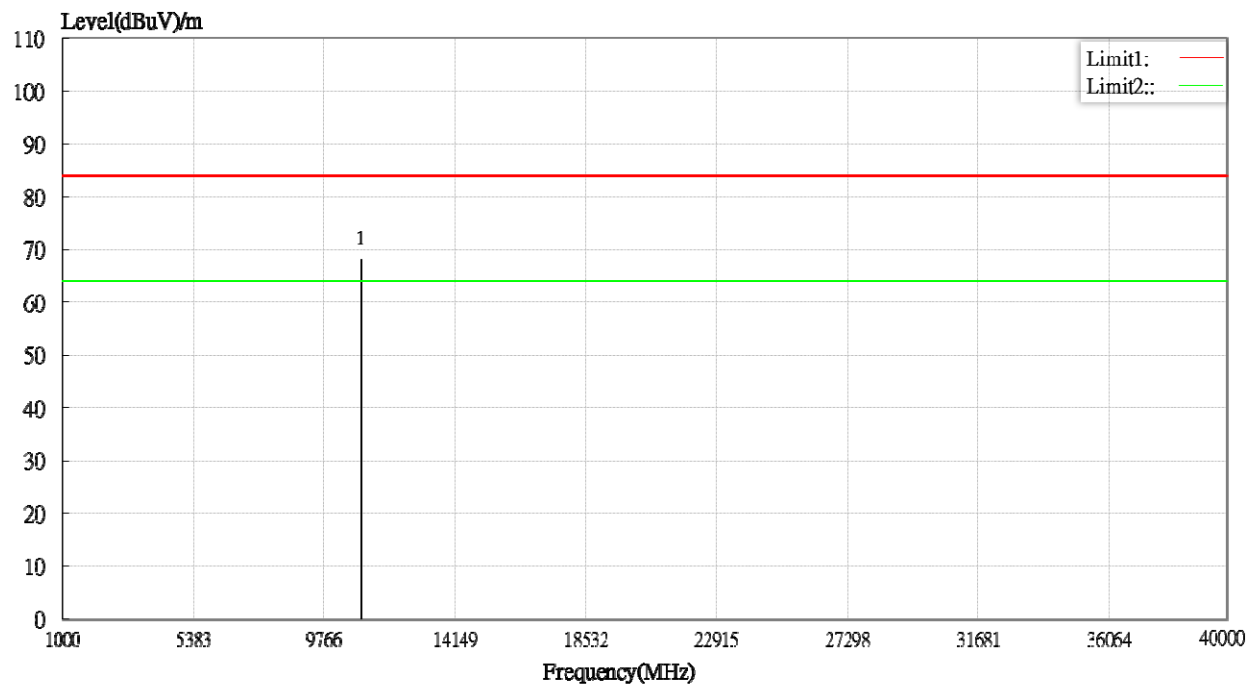


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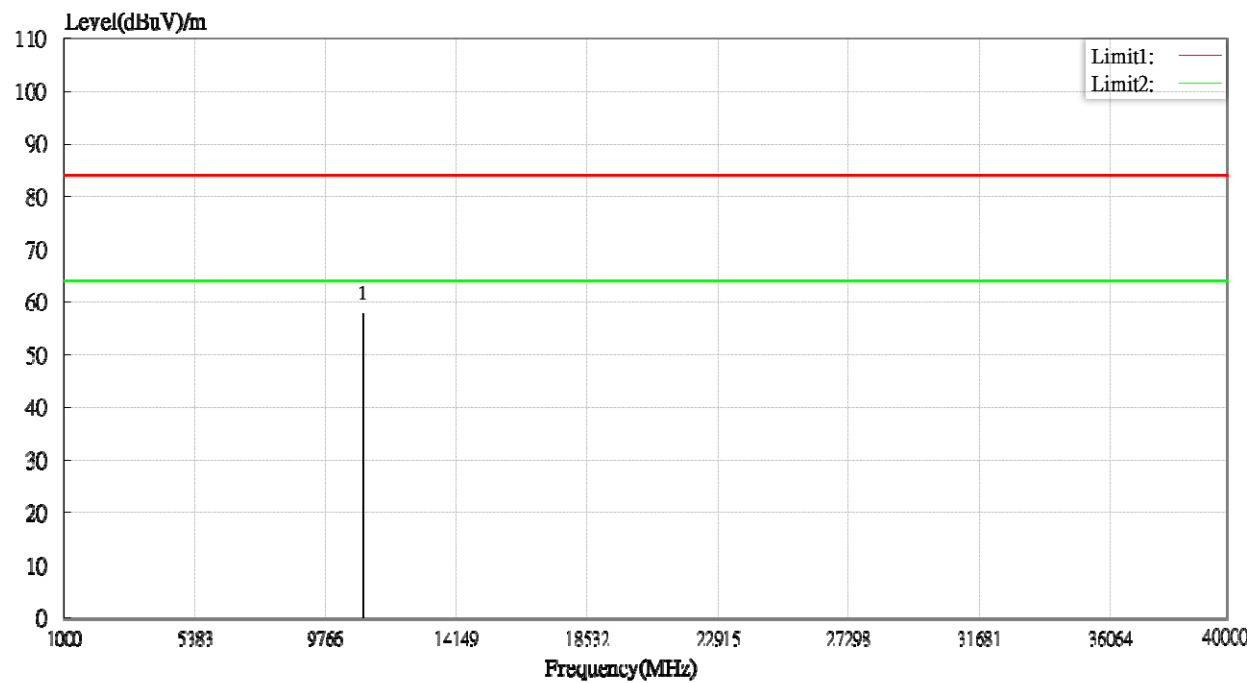


HT/VHT20 mode 5720 MHz Vertical XOR

PK

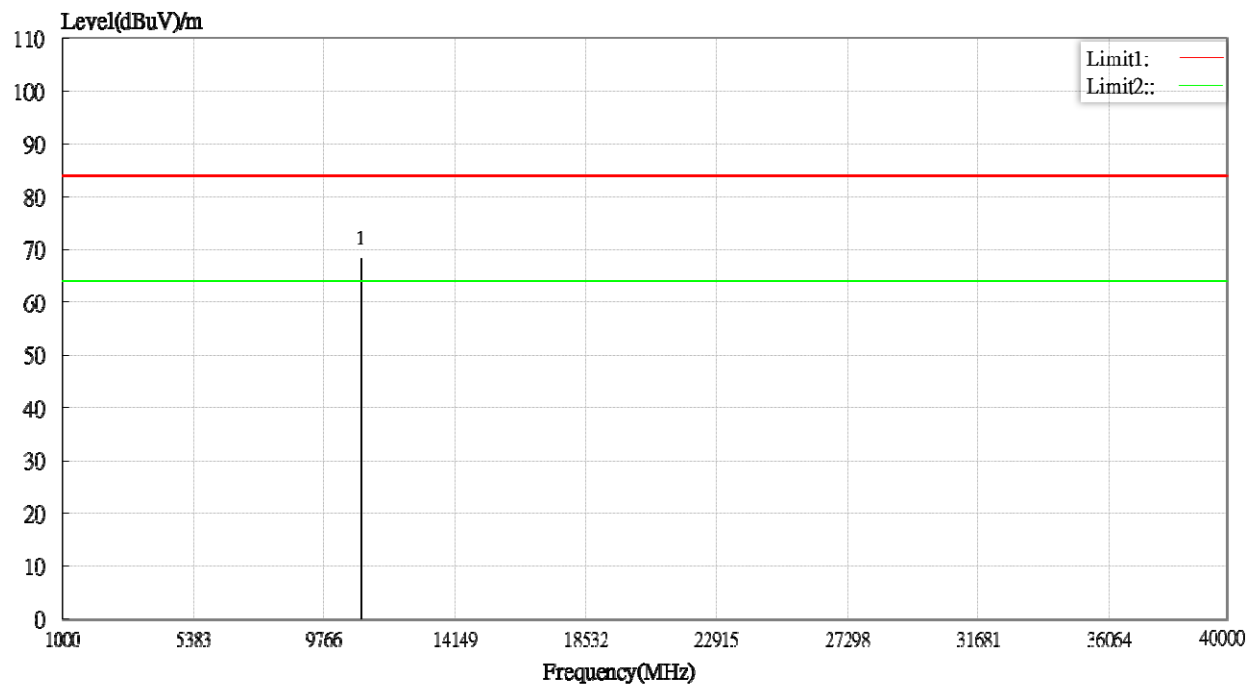


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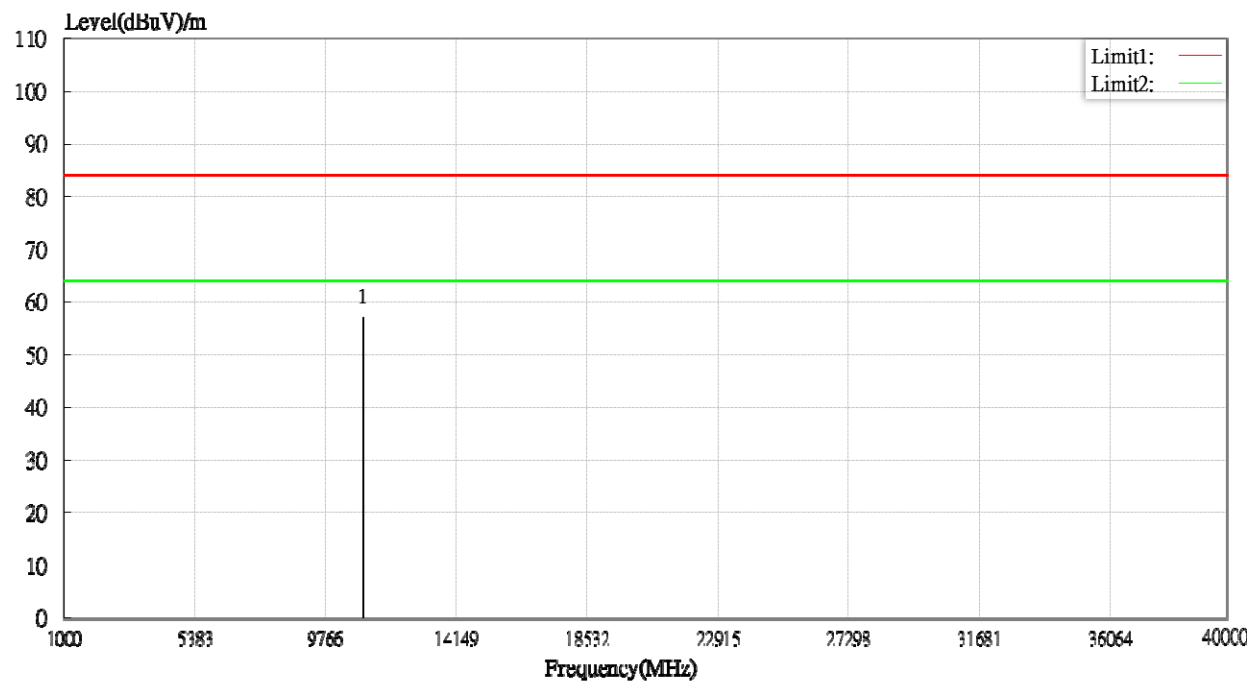


HE20 mode 5500 MHz Horizontal XOR

PK

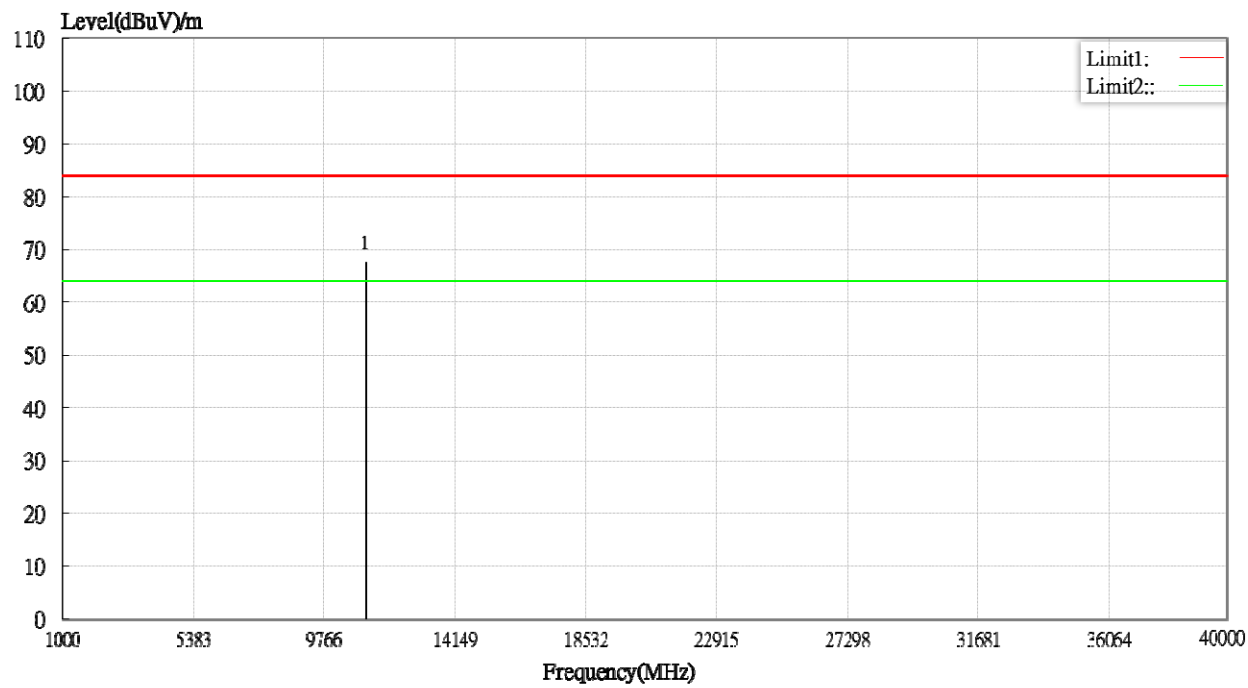


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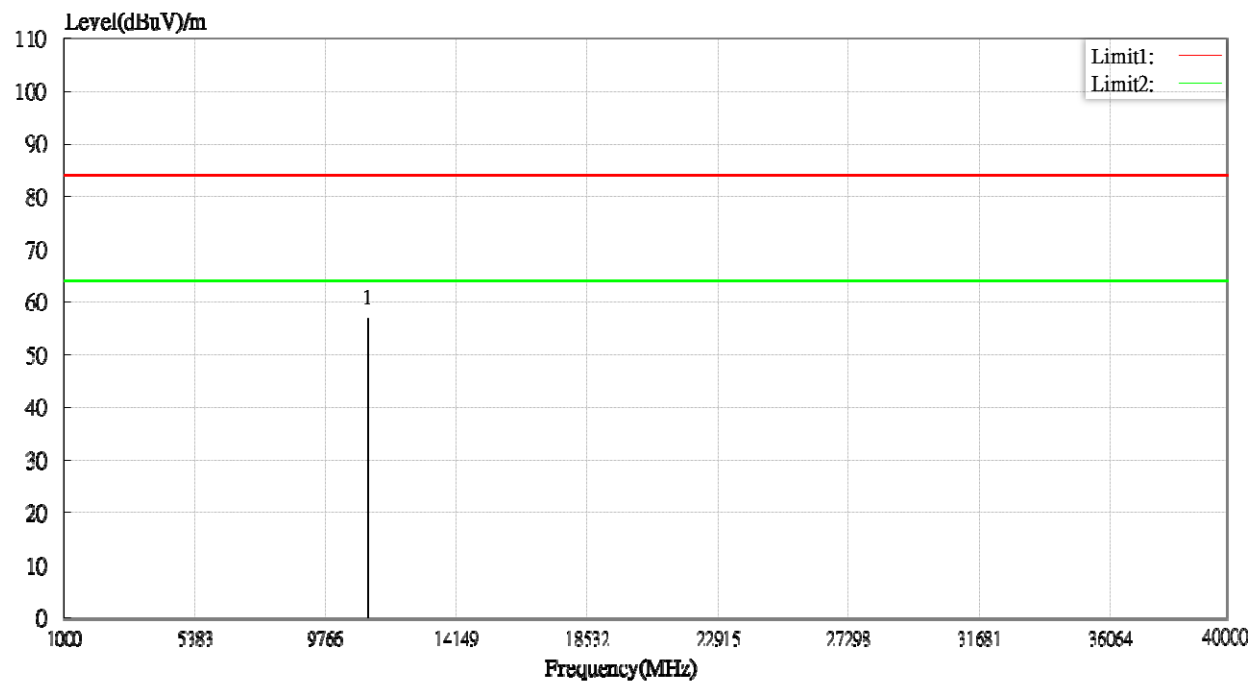


HE20 mode 5500 MHz Vertical XOR

PK

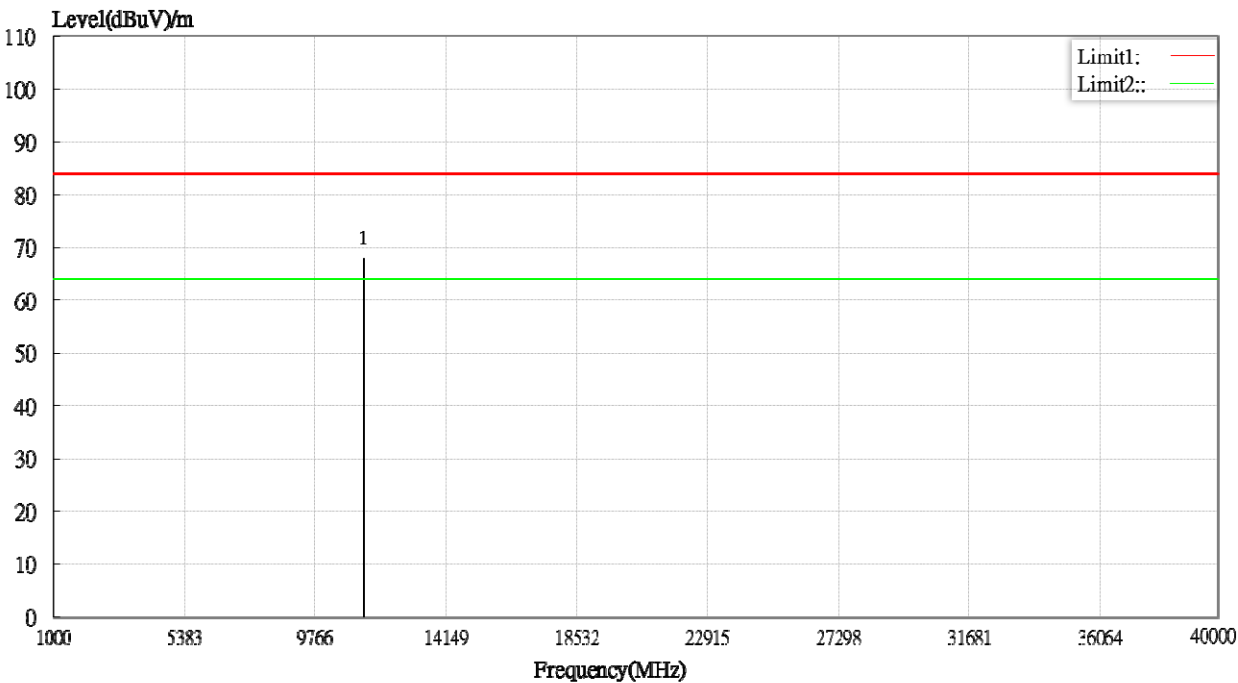


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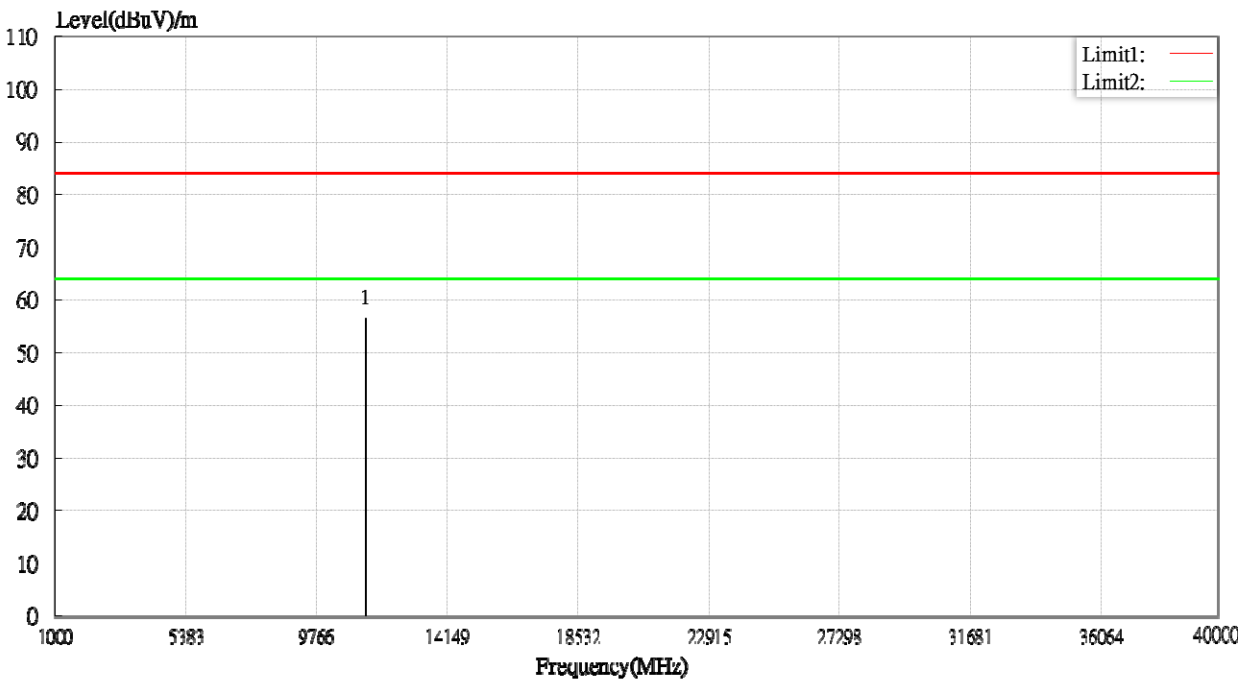


HE20 mode 5580 MHz Horizontal XOR

PK

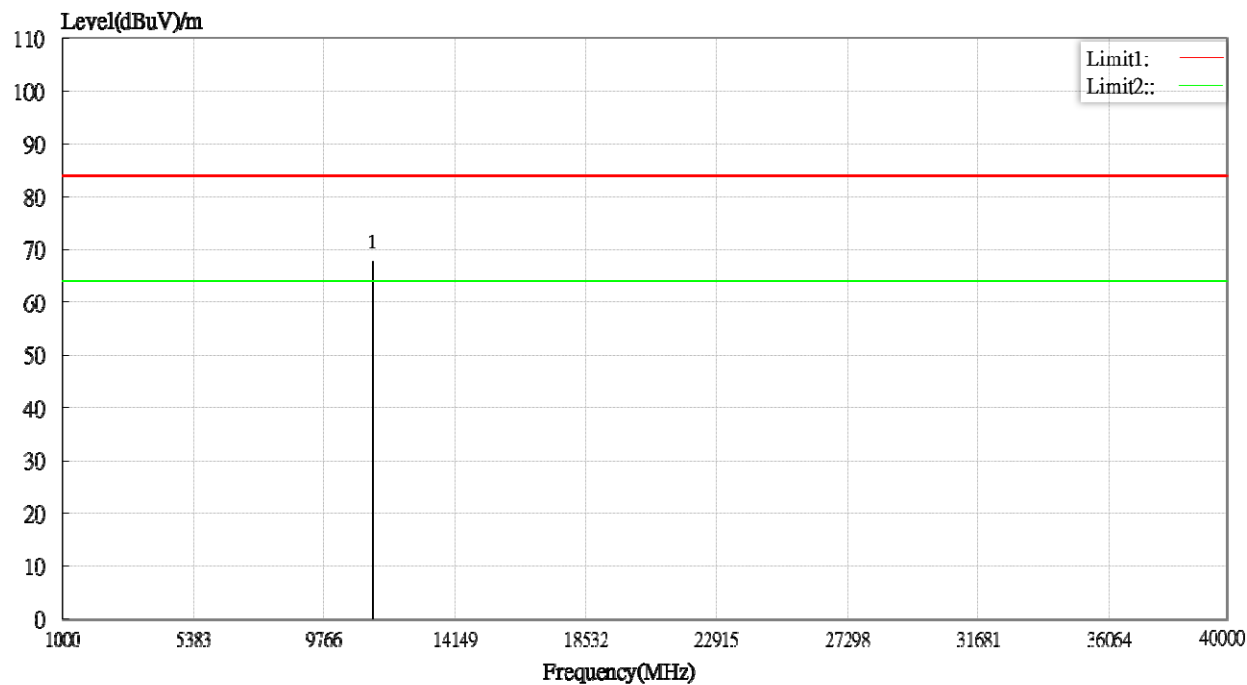


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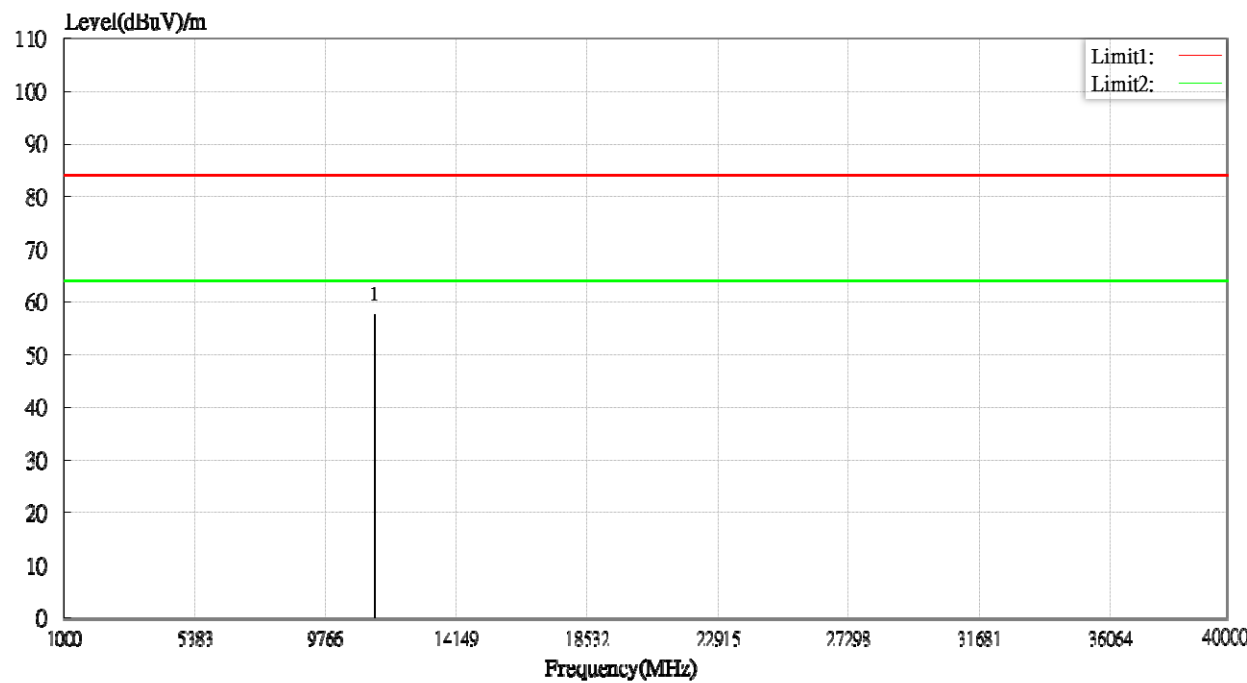


HE20 mode 5580 MHz Vertical XOR

PK

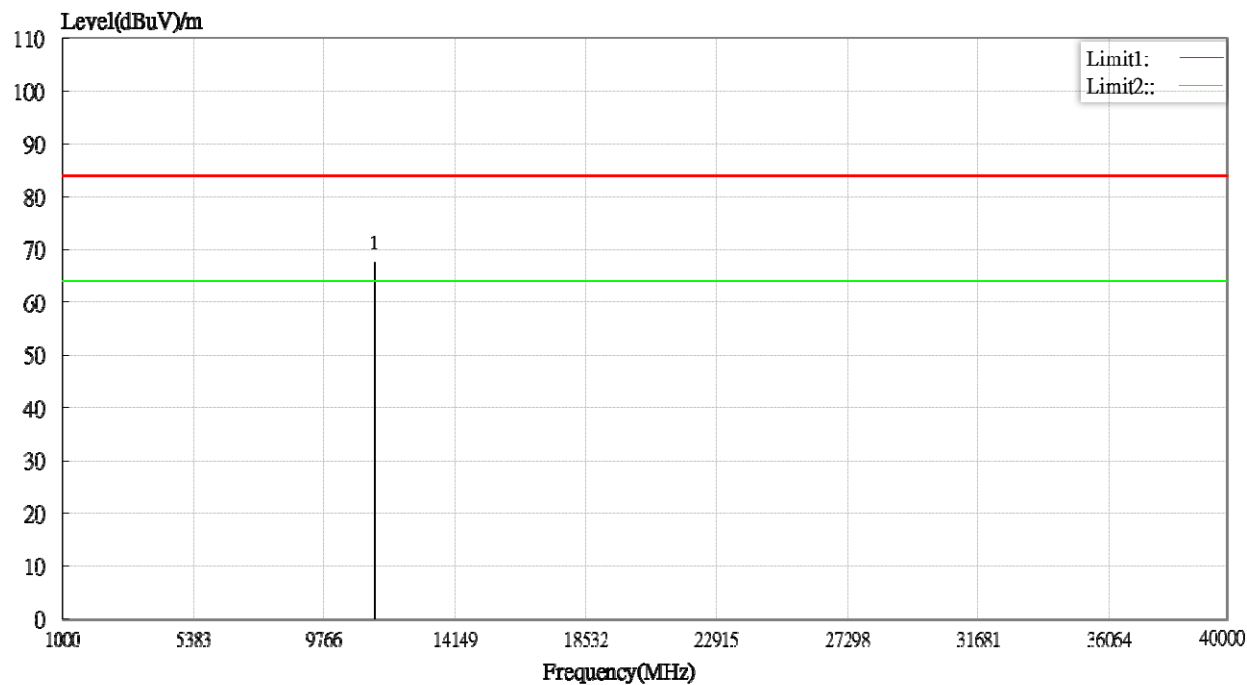


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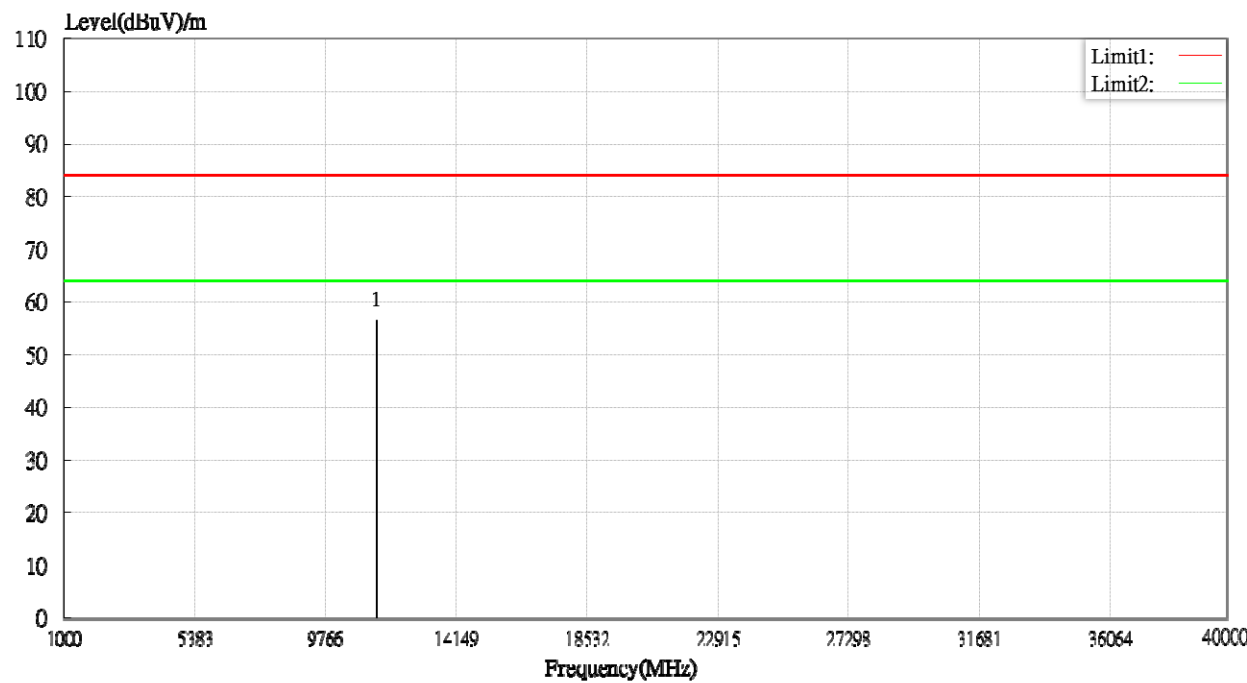


HE20 mode 5700 MHz Horizontal XOR

PK

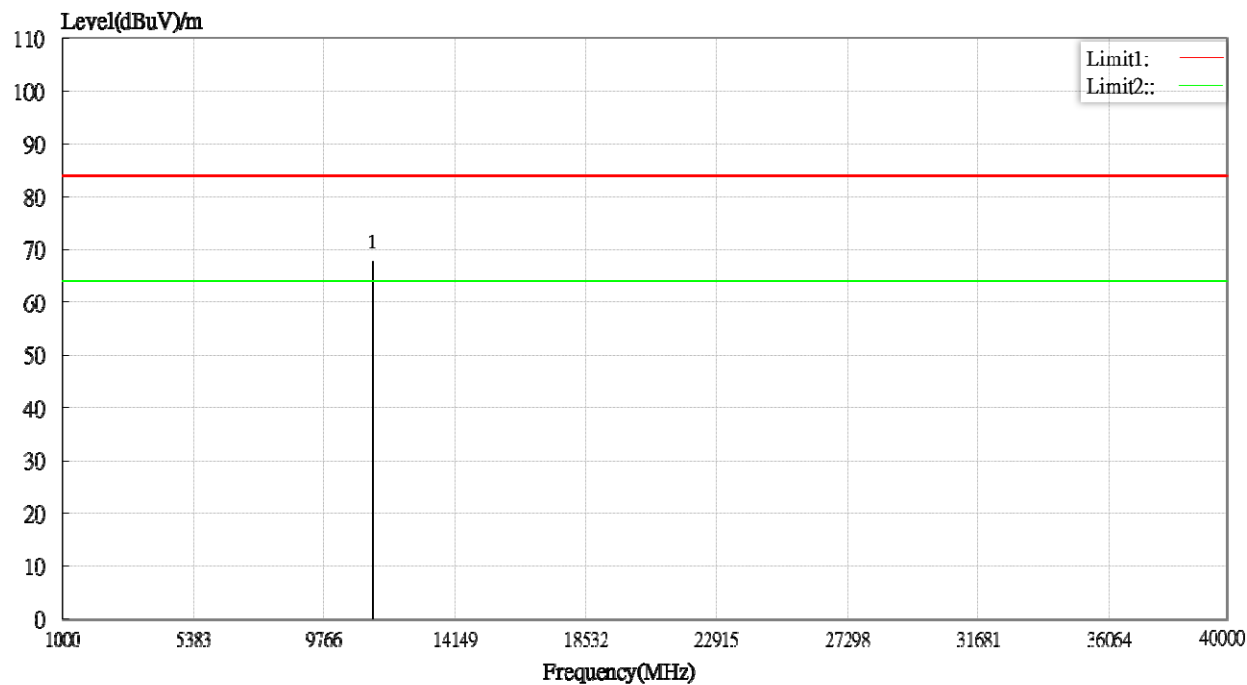


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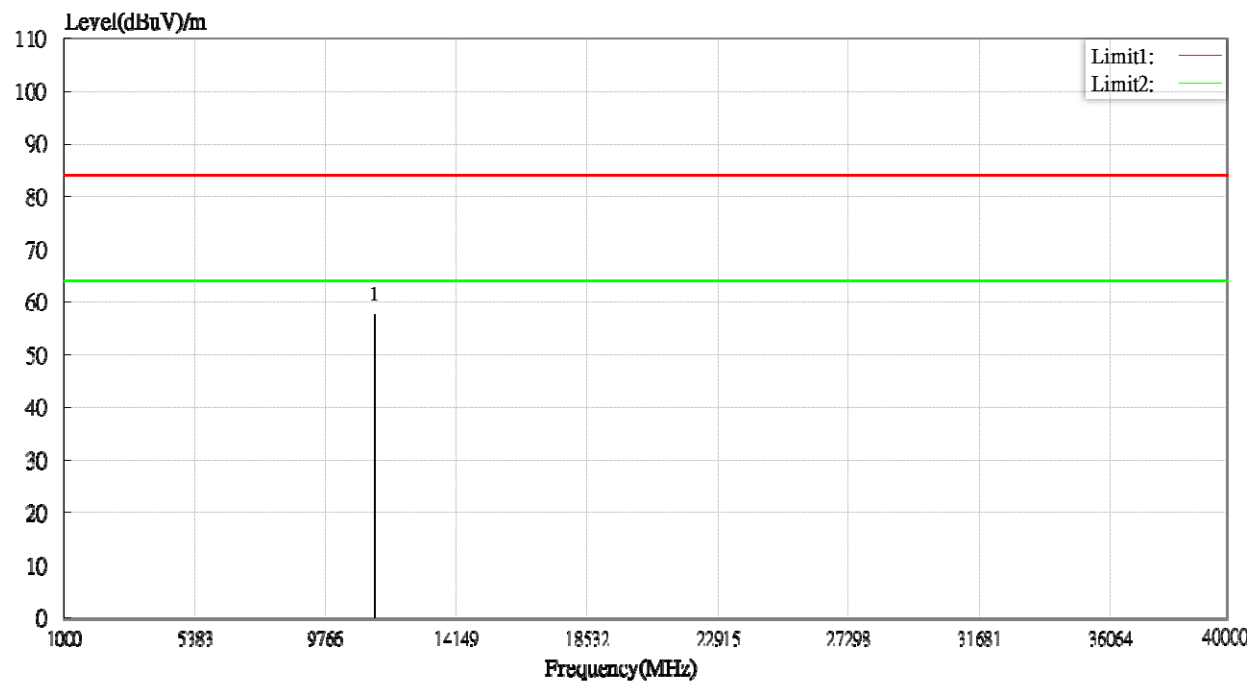


HE20 mode 5700 MHz Vertical XOR

PK

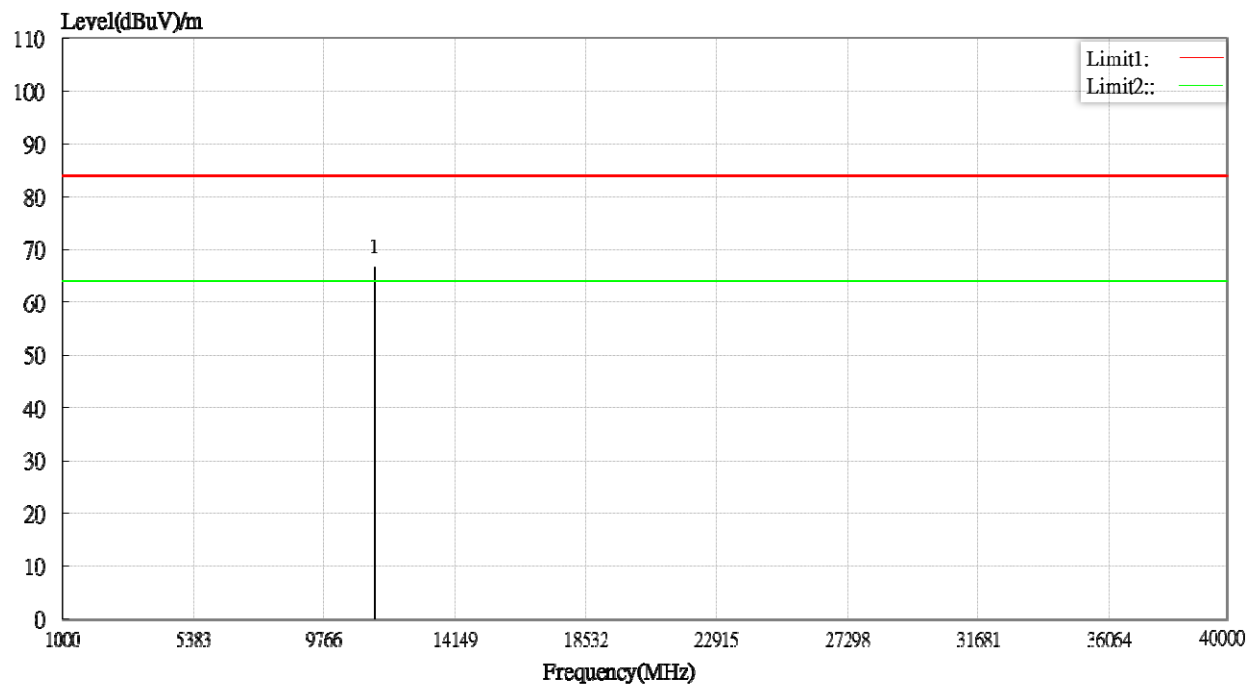


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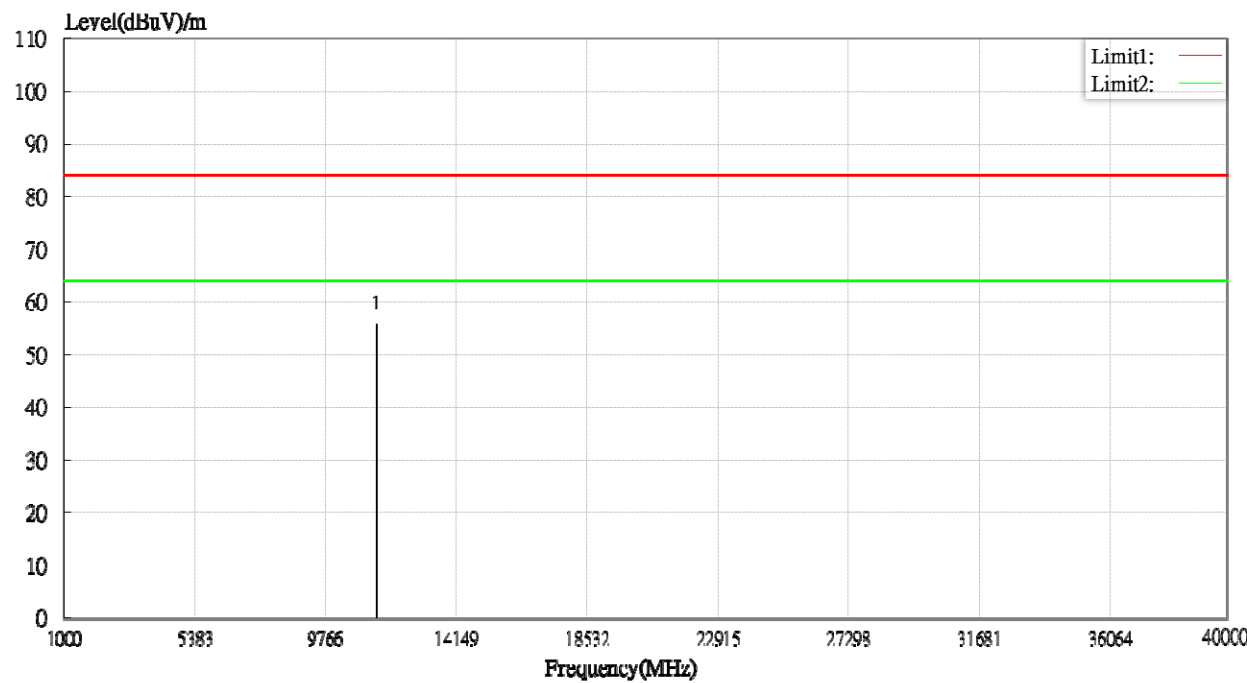


HE20 mode 5720 MHz Horizontal XOR

PK

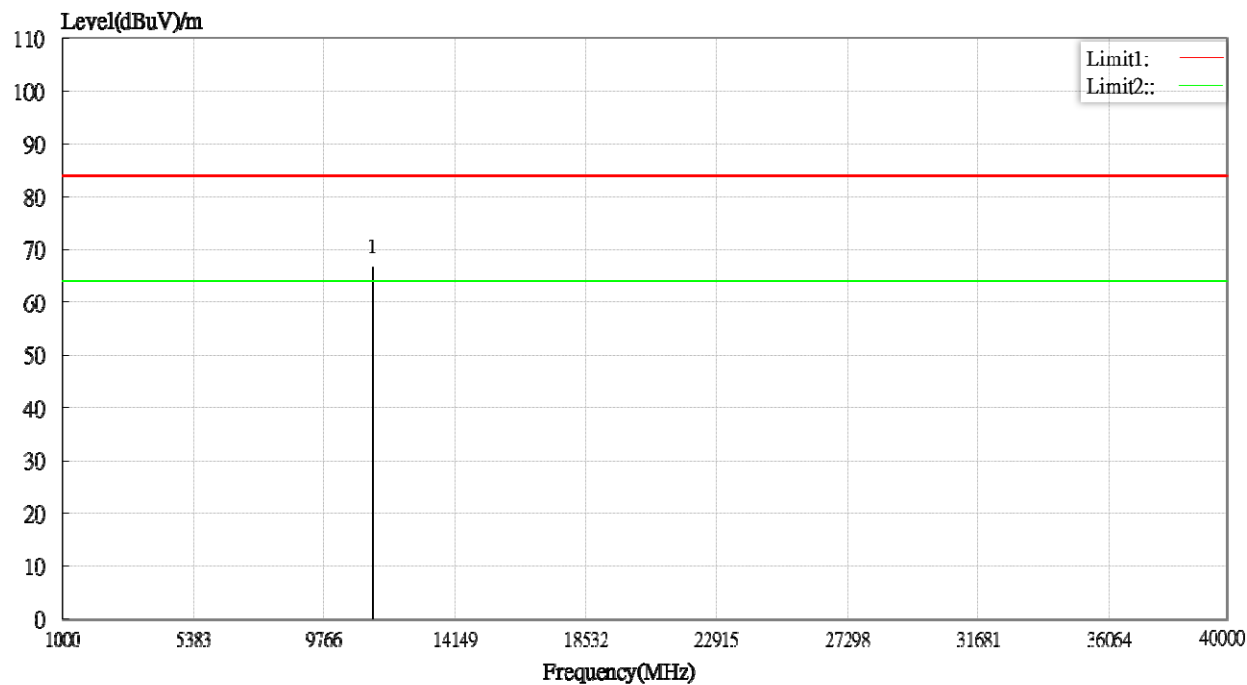


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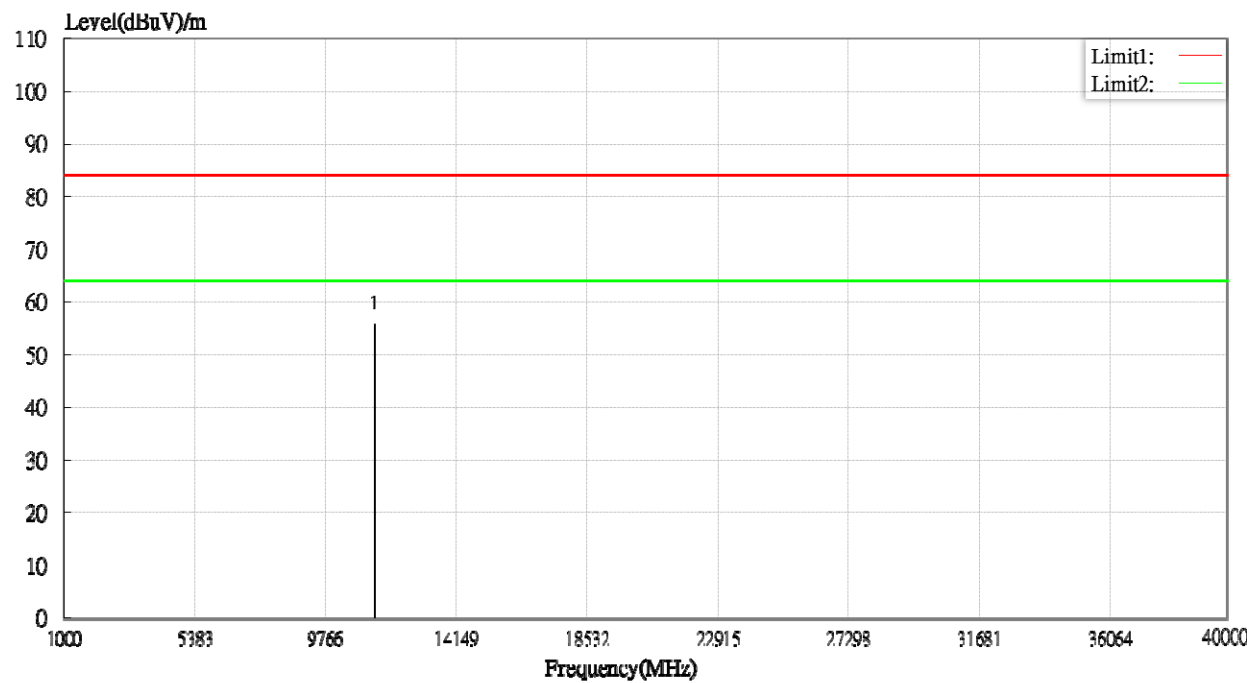


HE20 mode 5720 MHz Vertical XOR

PK

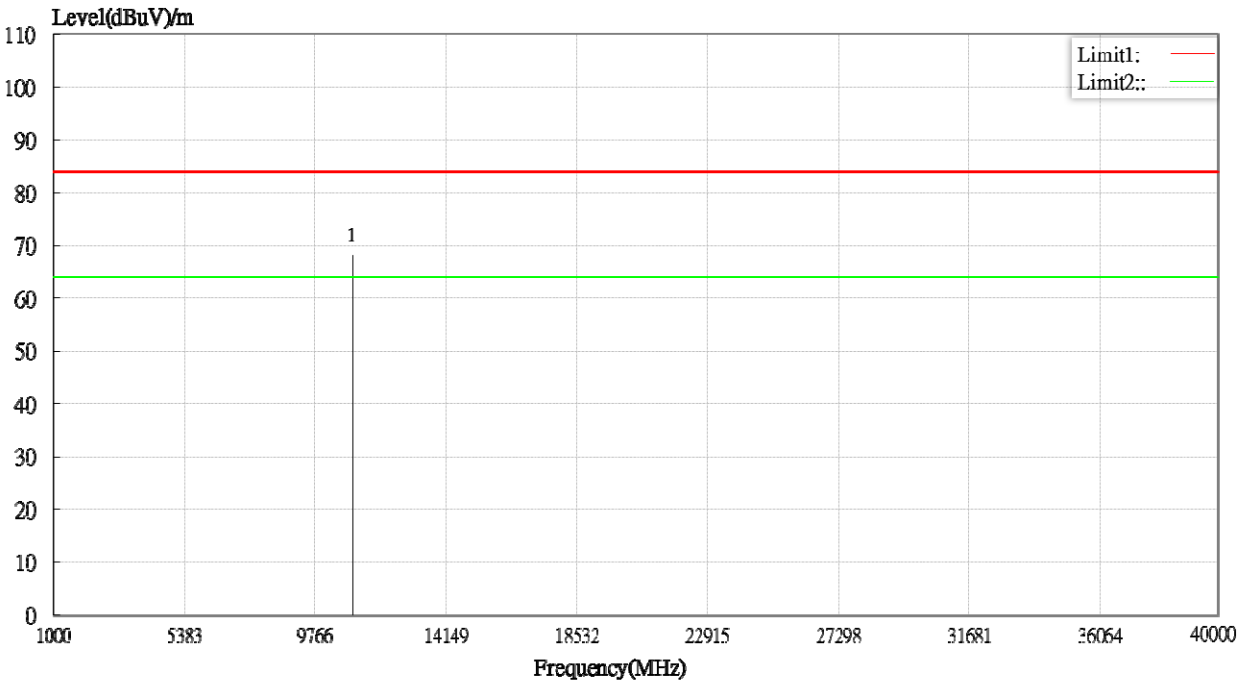


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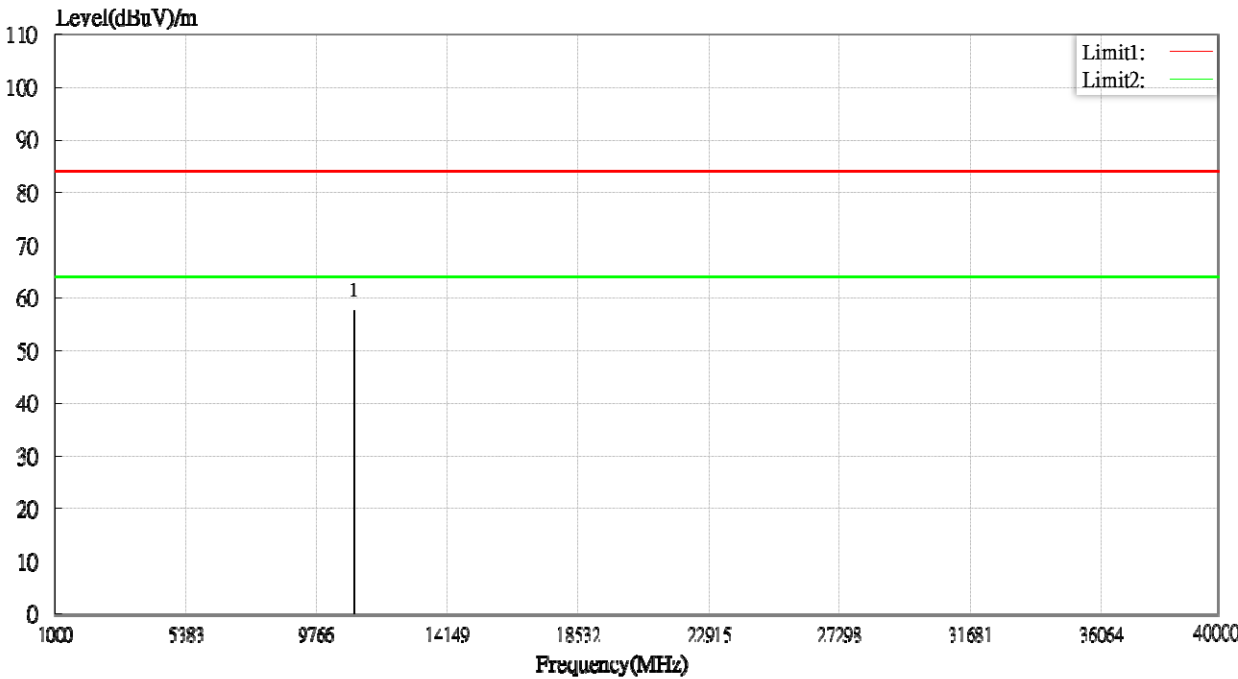


Non HT40 mode 5510 MHz Horizontal XOR

PK

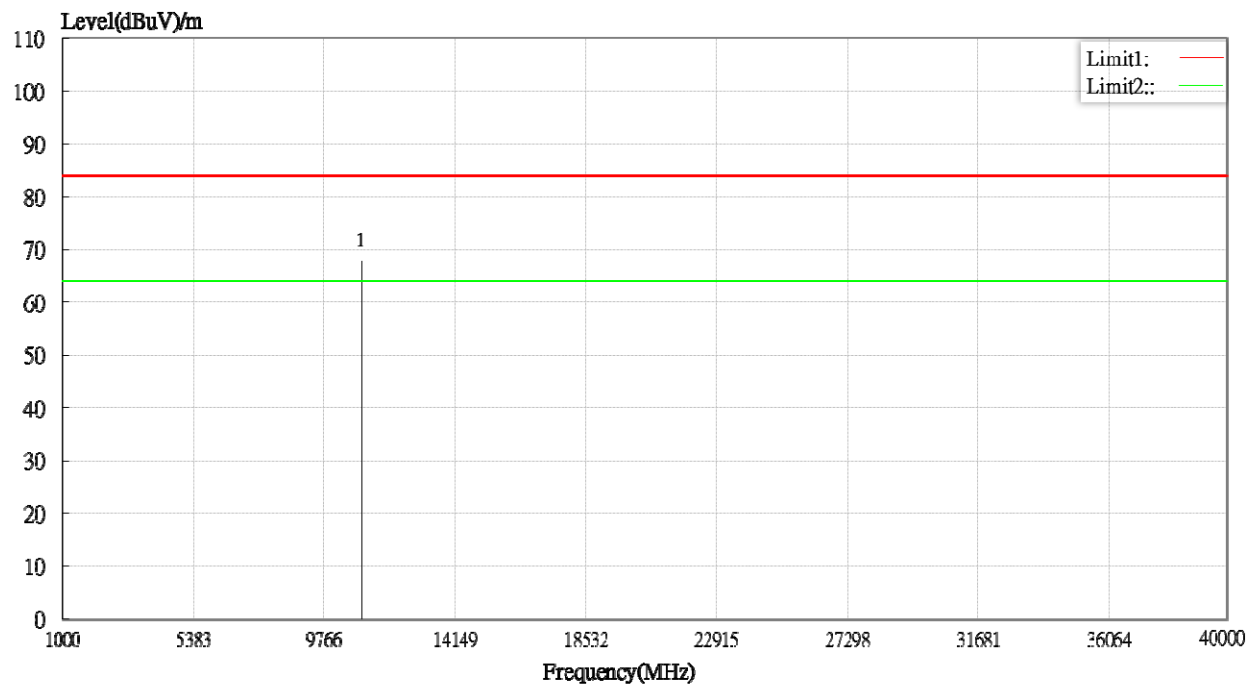


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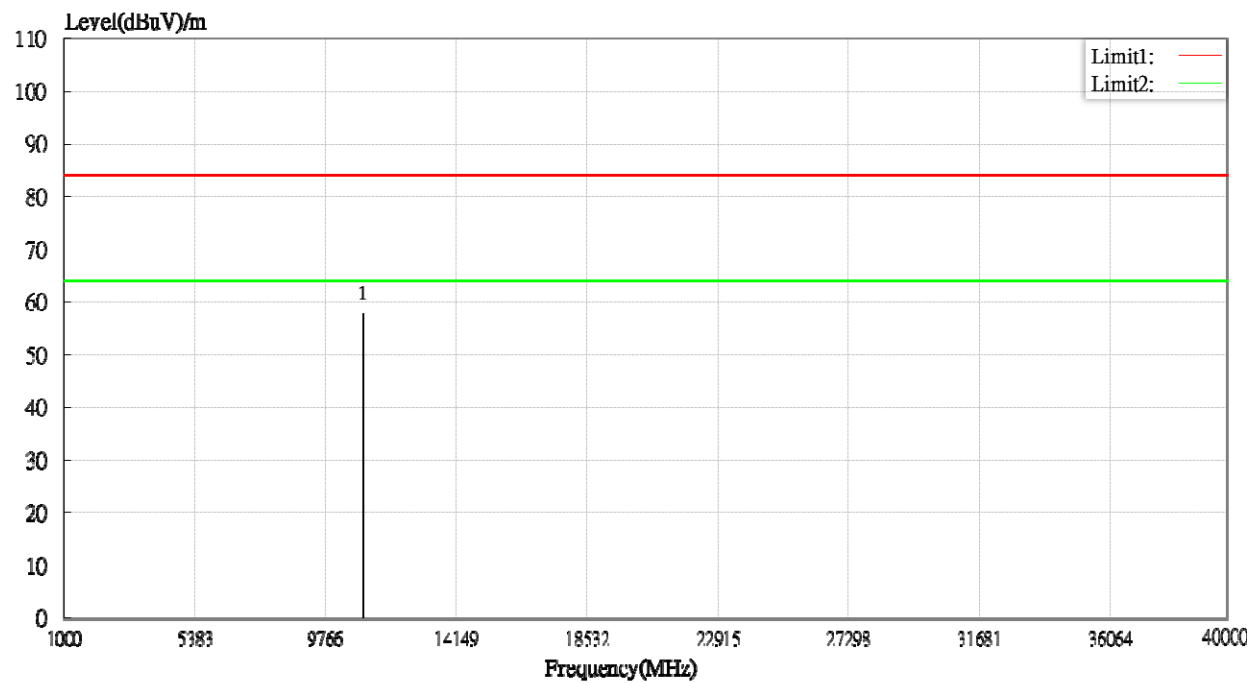


Non HT40 mode 5510 MHz Vertical XOR

PK

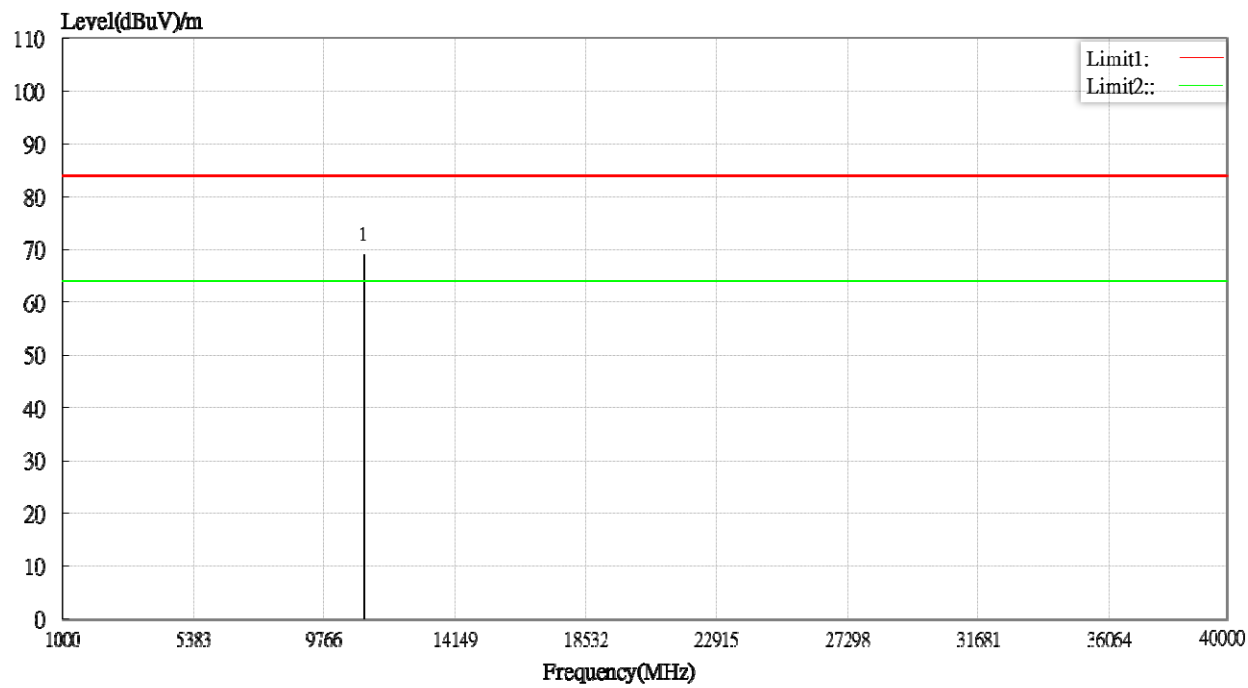


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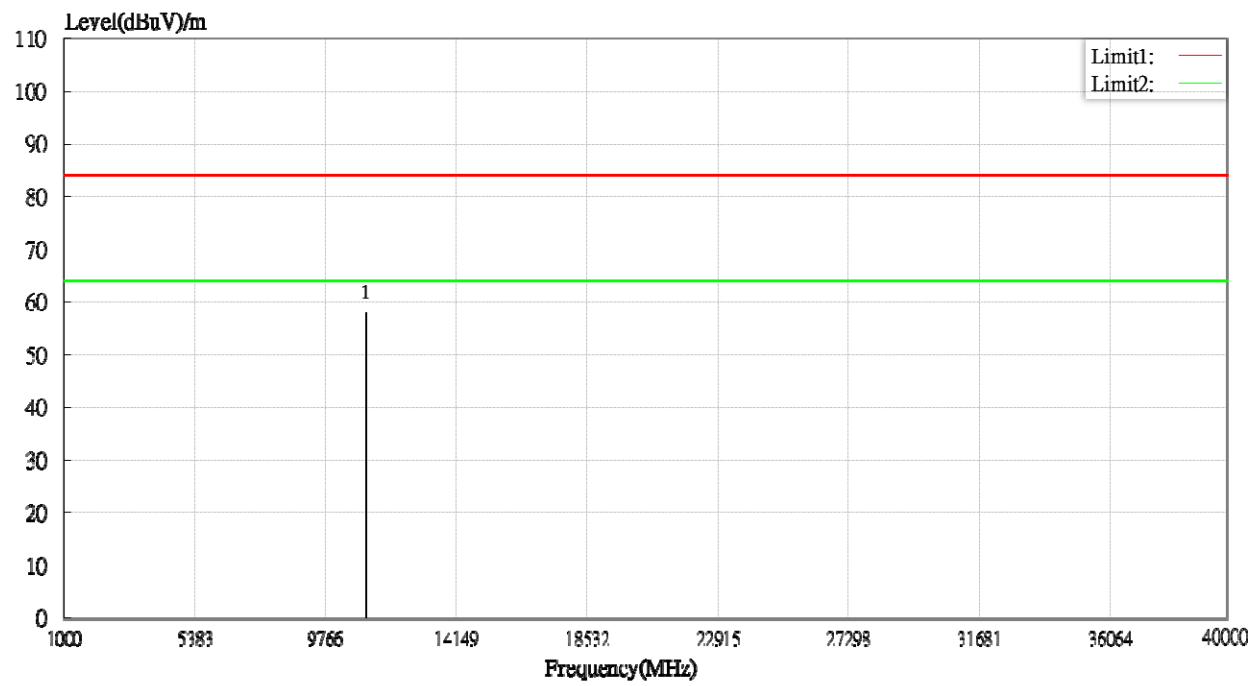


Non HT40 mode 5550 MHz Horizontal XOR

PK

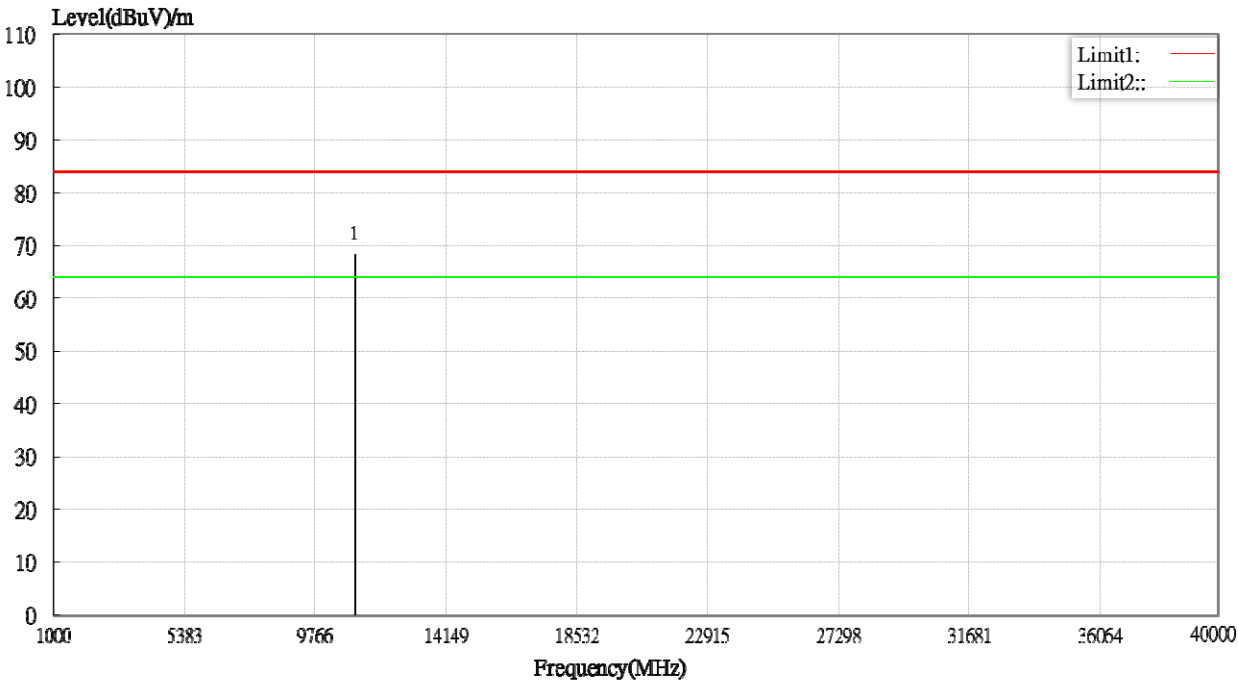


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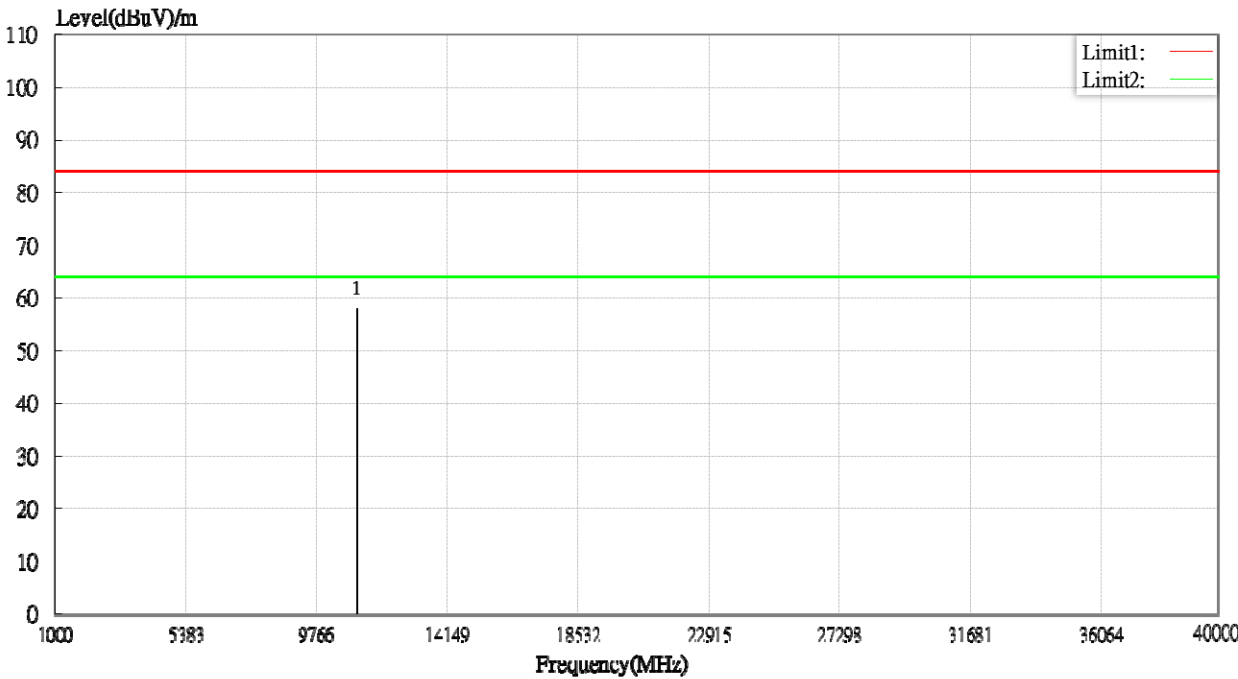


Non HT40 mode 5550 MHz Vertical XOR

PK

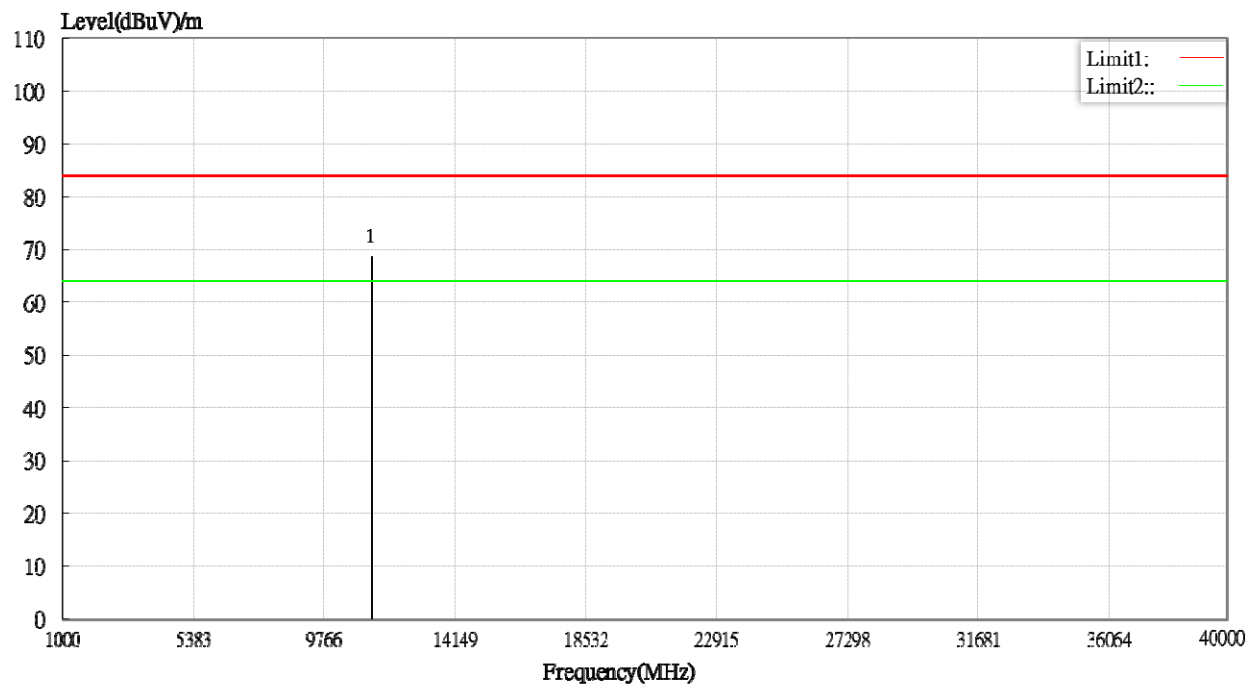


AVG

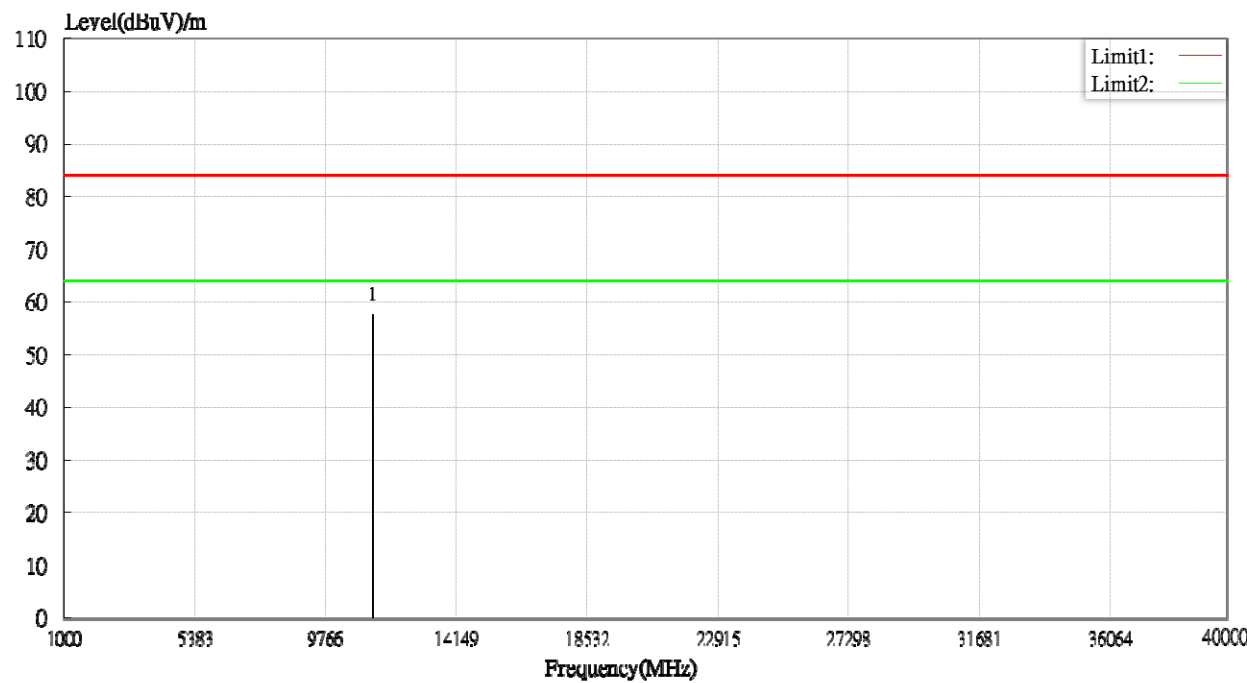


Non HT40 mode 5670 MHz Horizontal XOR

PK

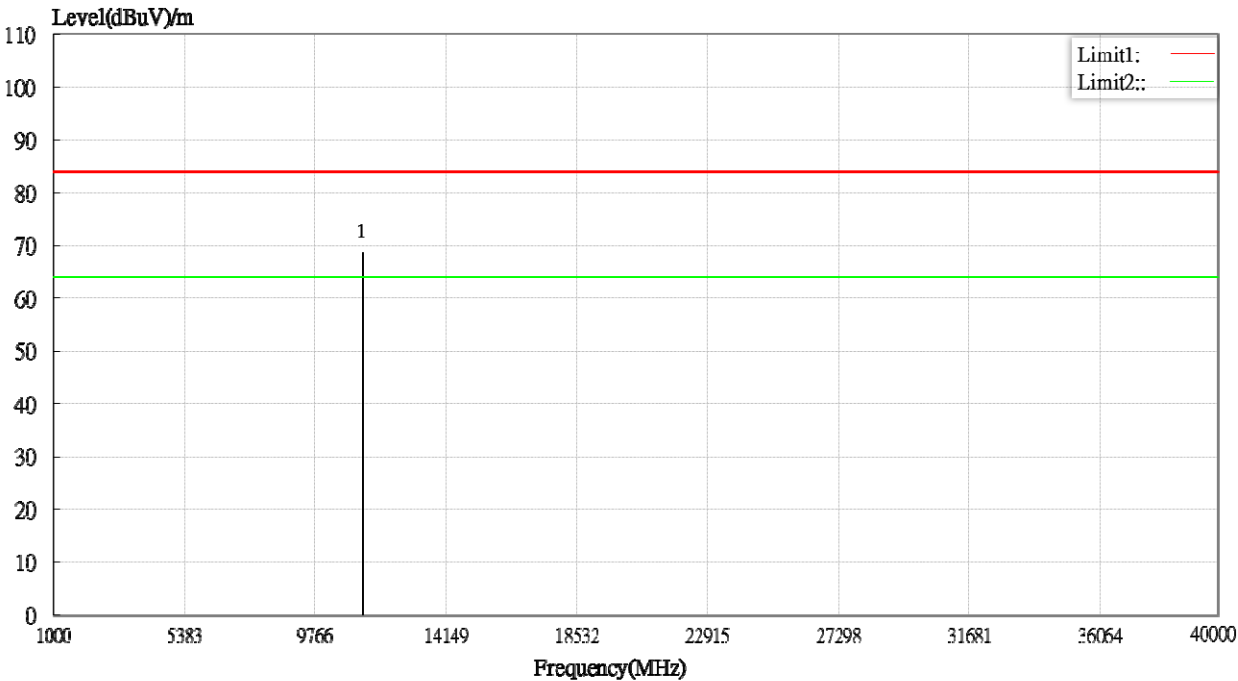


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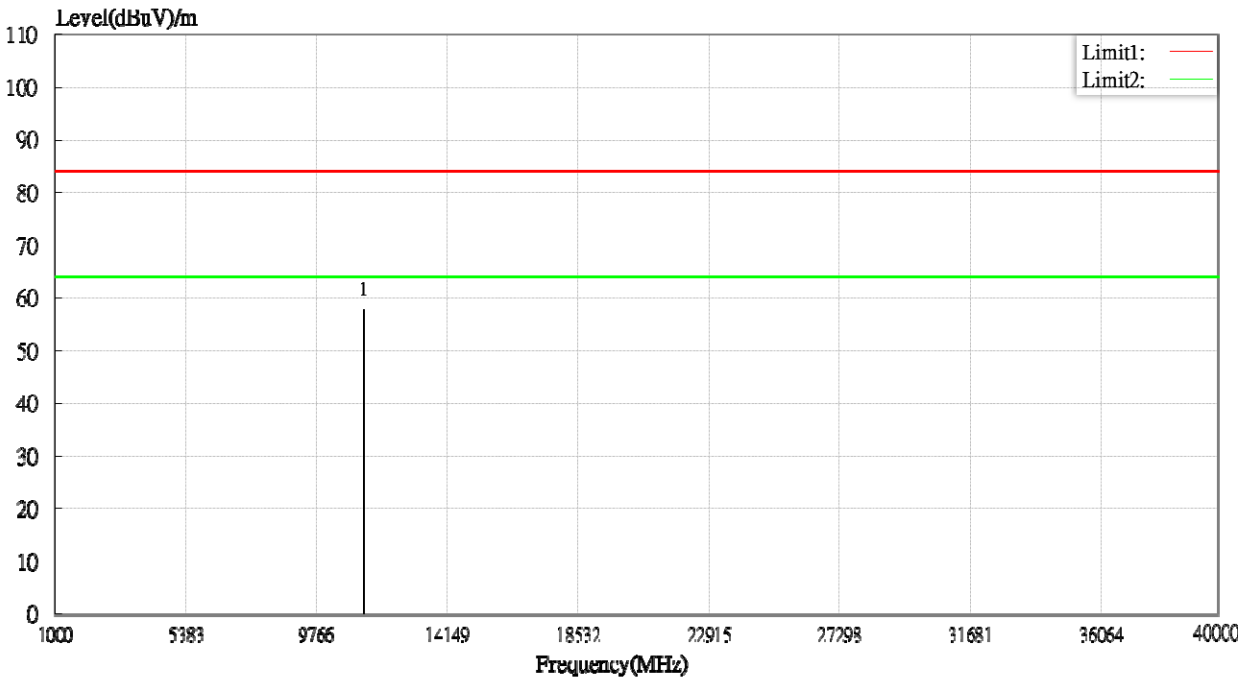


Non HT40 mode 5670 MHz Vertical XOR

PK

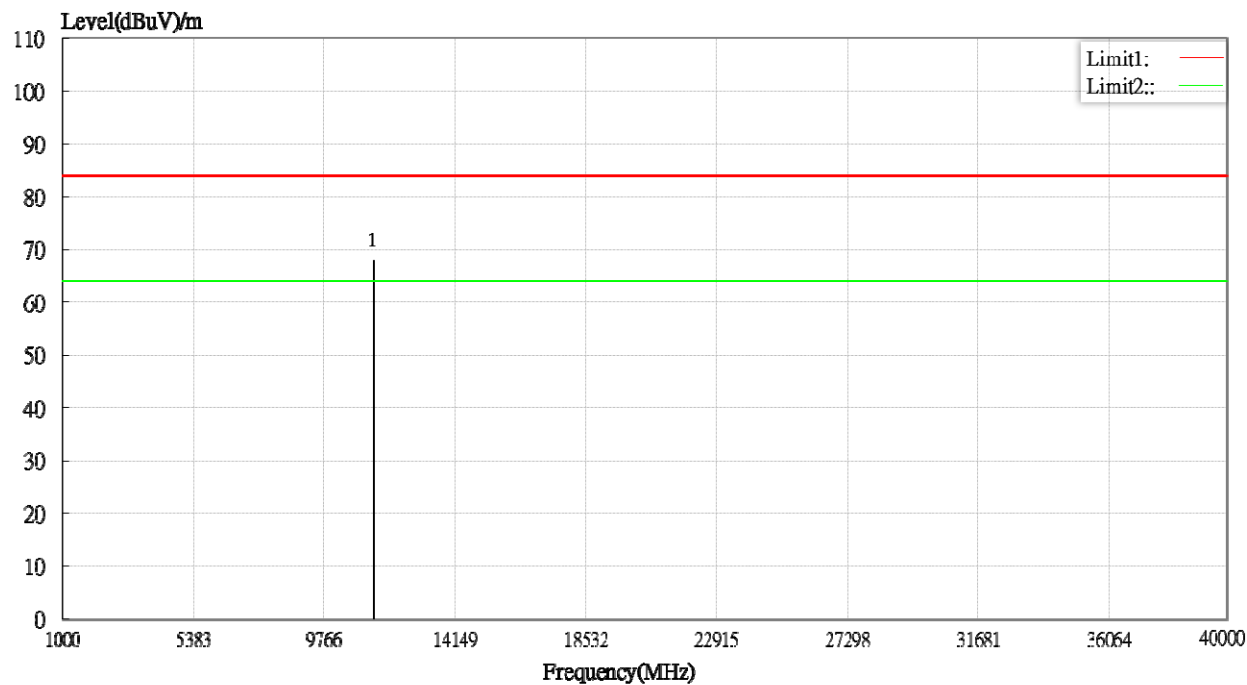


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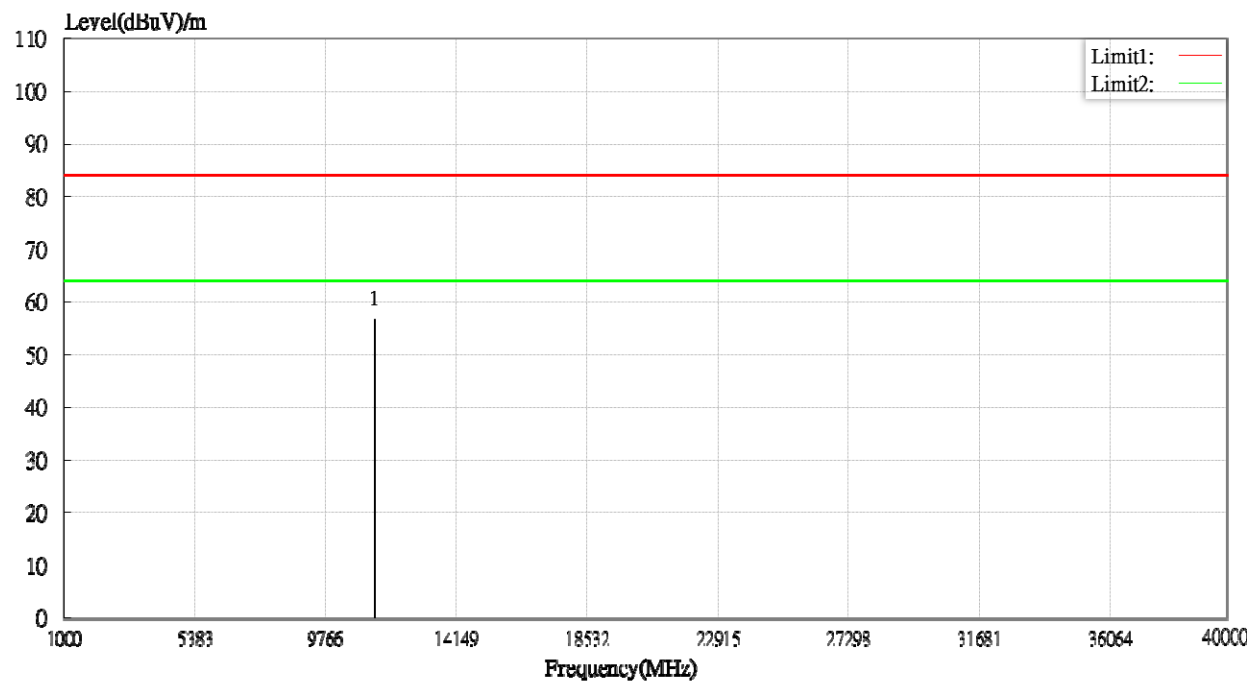


Non HT40 mode 5710 MHz Horizontal XOR

PK

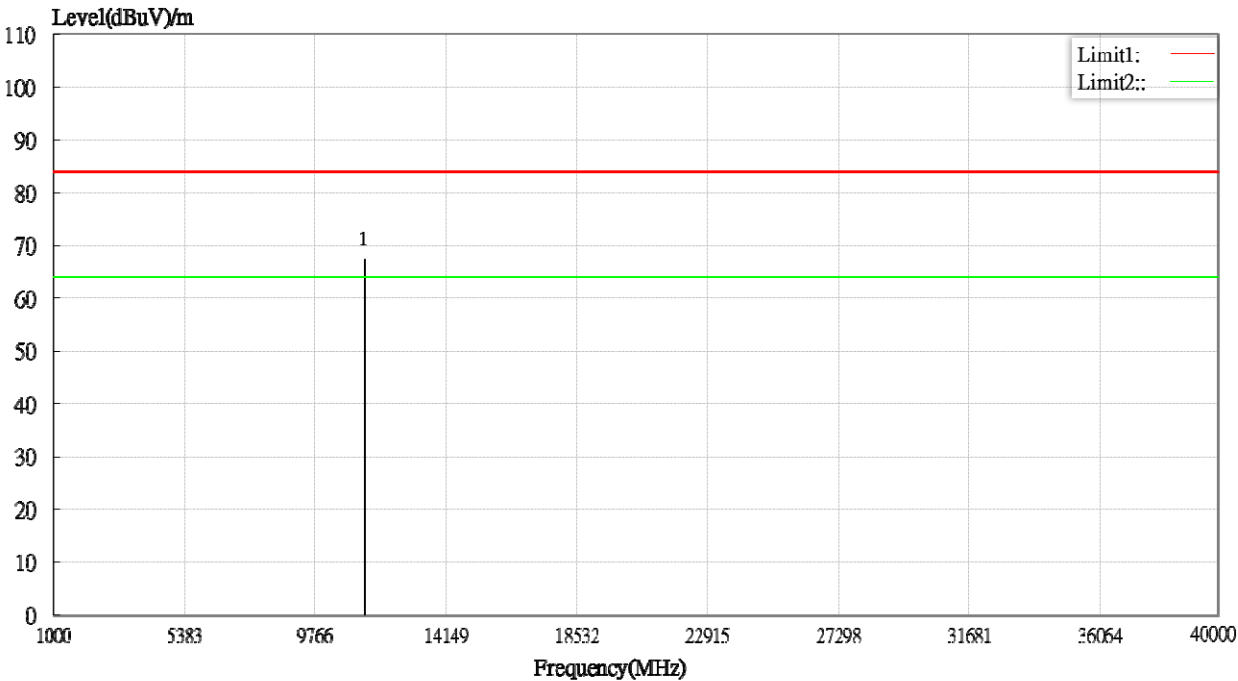


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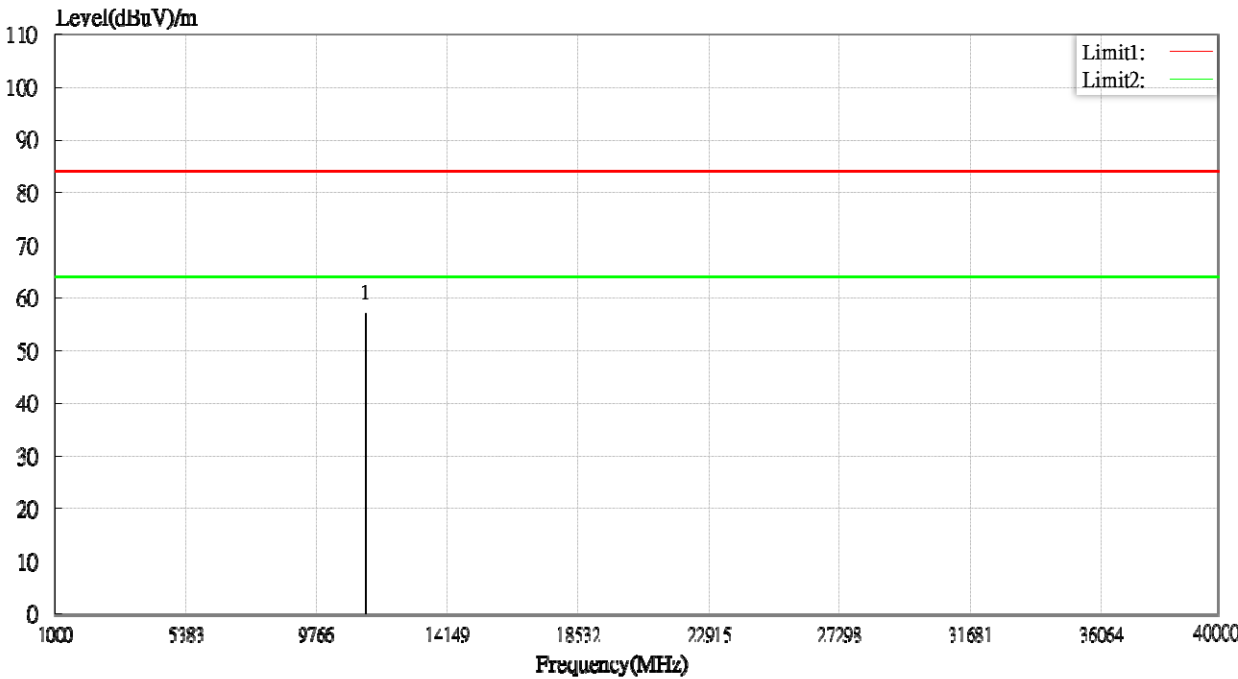


Non HT40 mode 5710 MHz Vertical XOR

PK

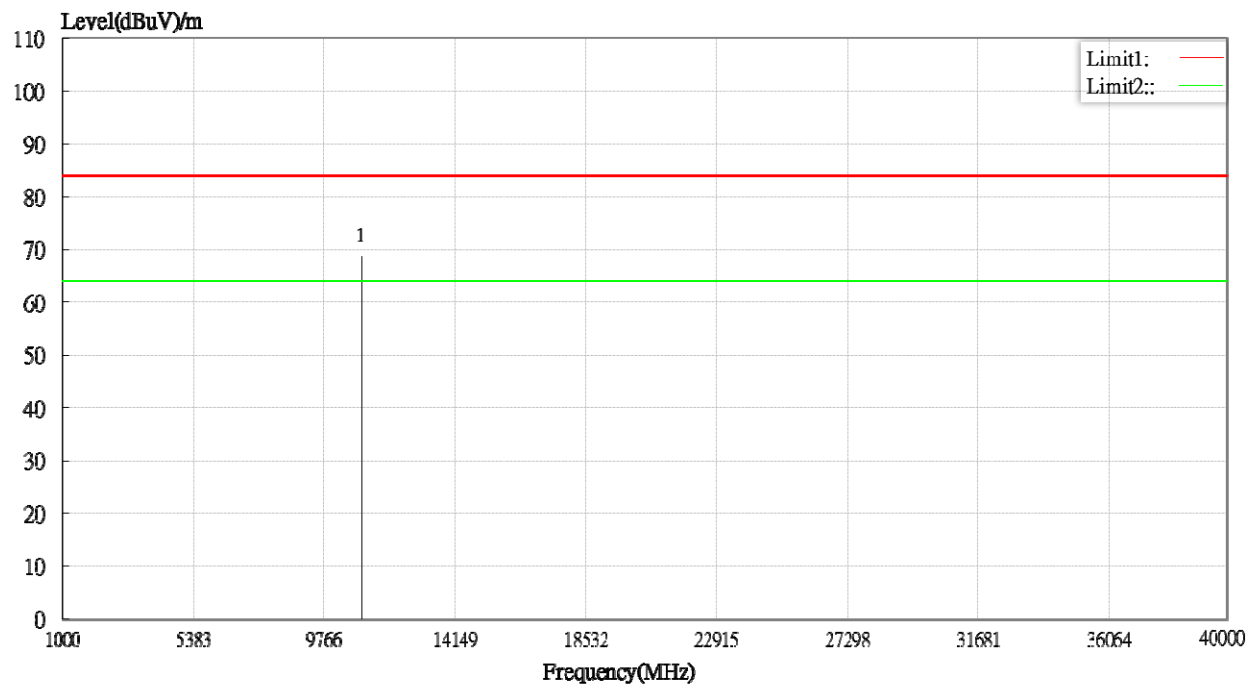


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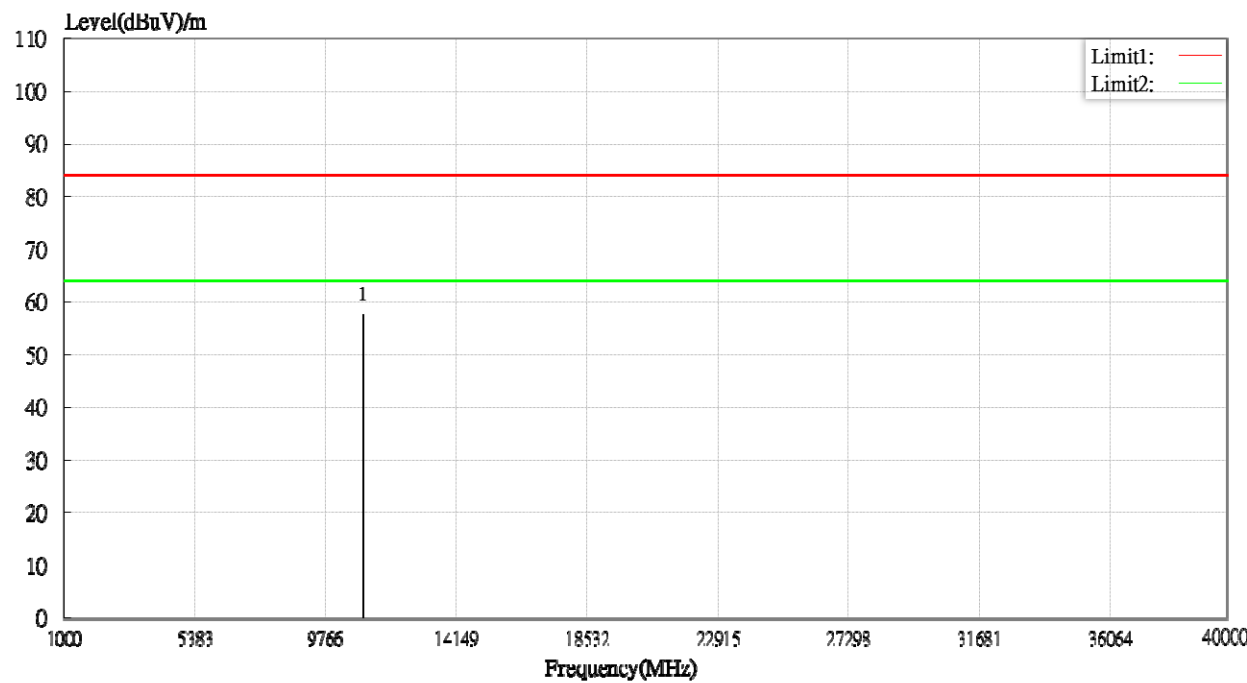


HT/VHT40 mode 5510 MHz Horizontal XOR

PK

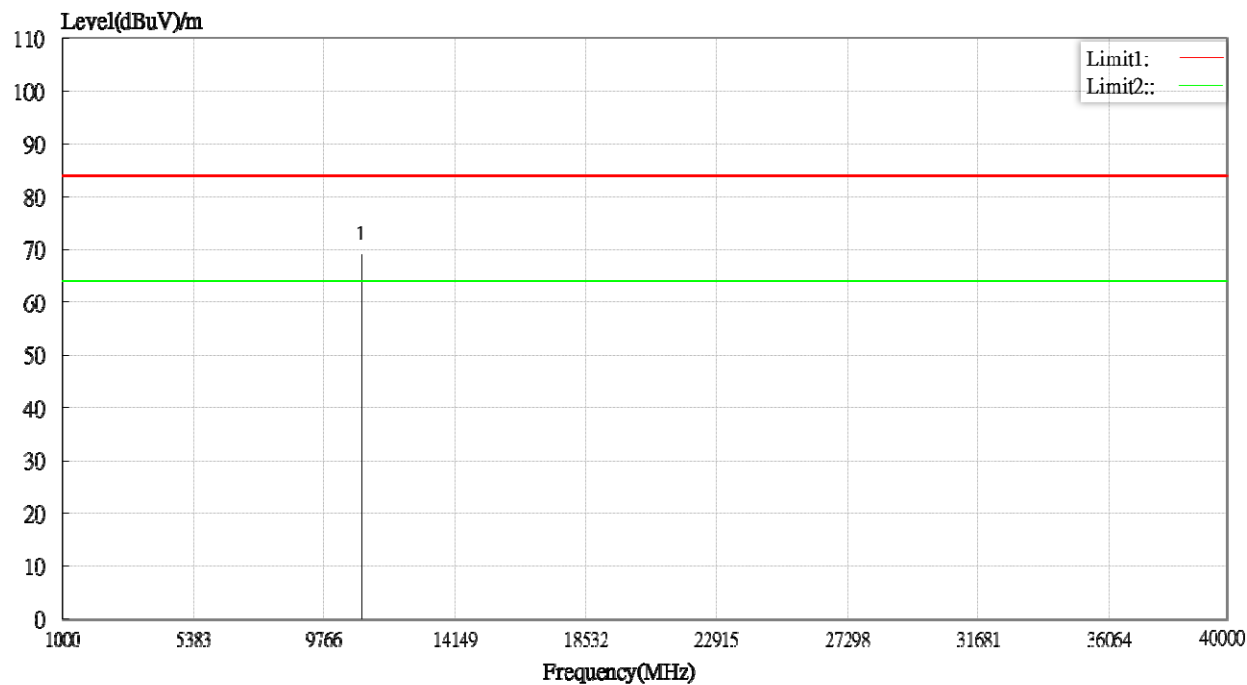


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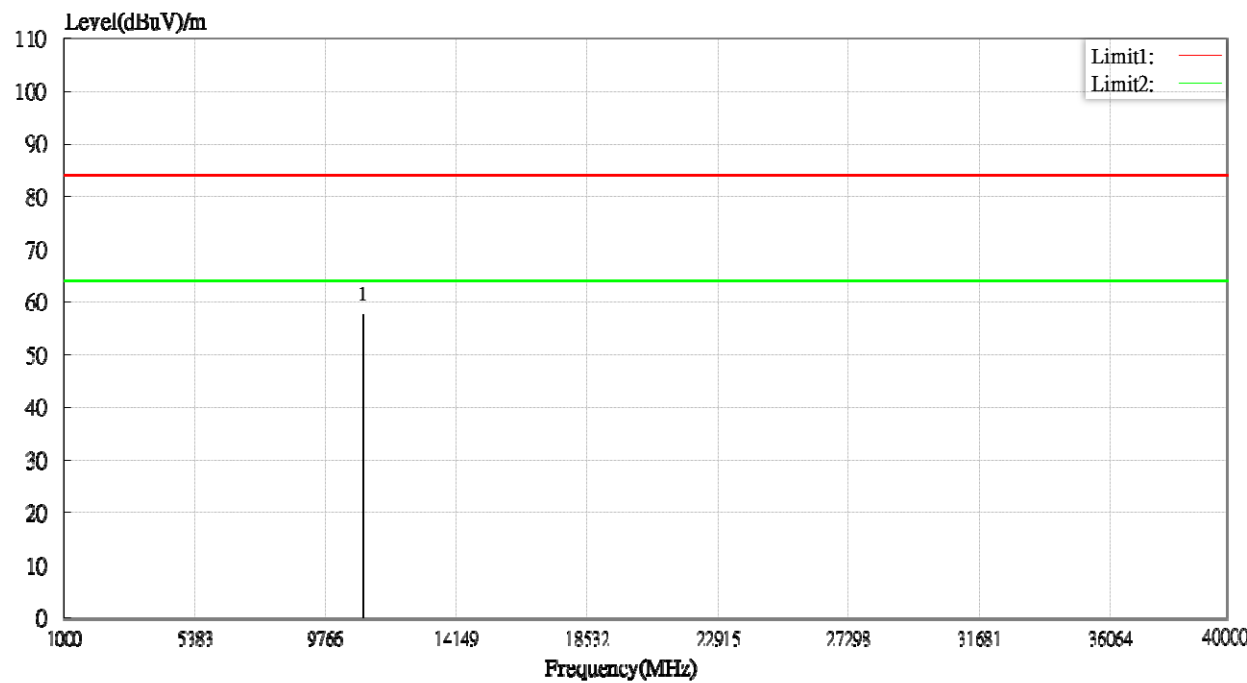


HT/VHT40 mode 5510 MHz Vertical XOR

PK

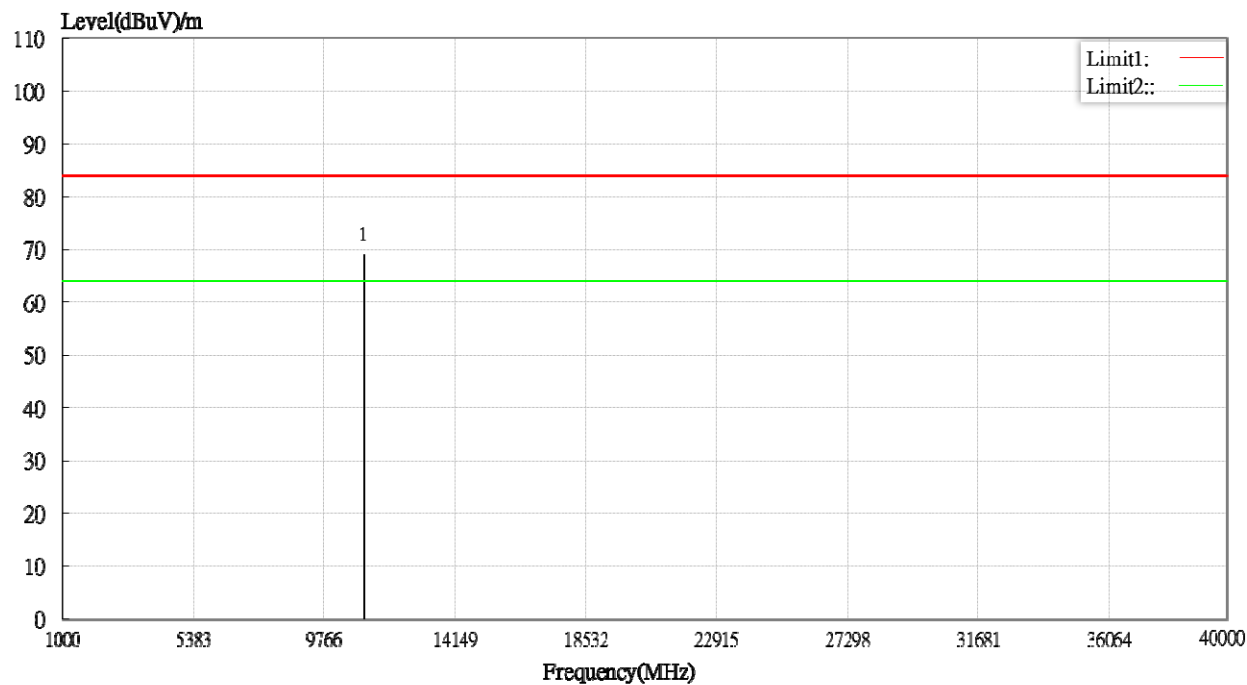


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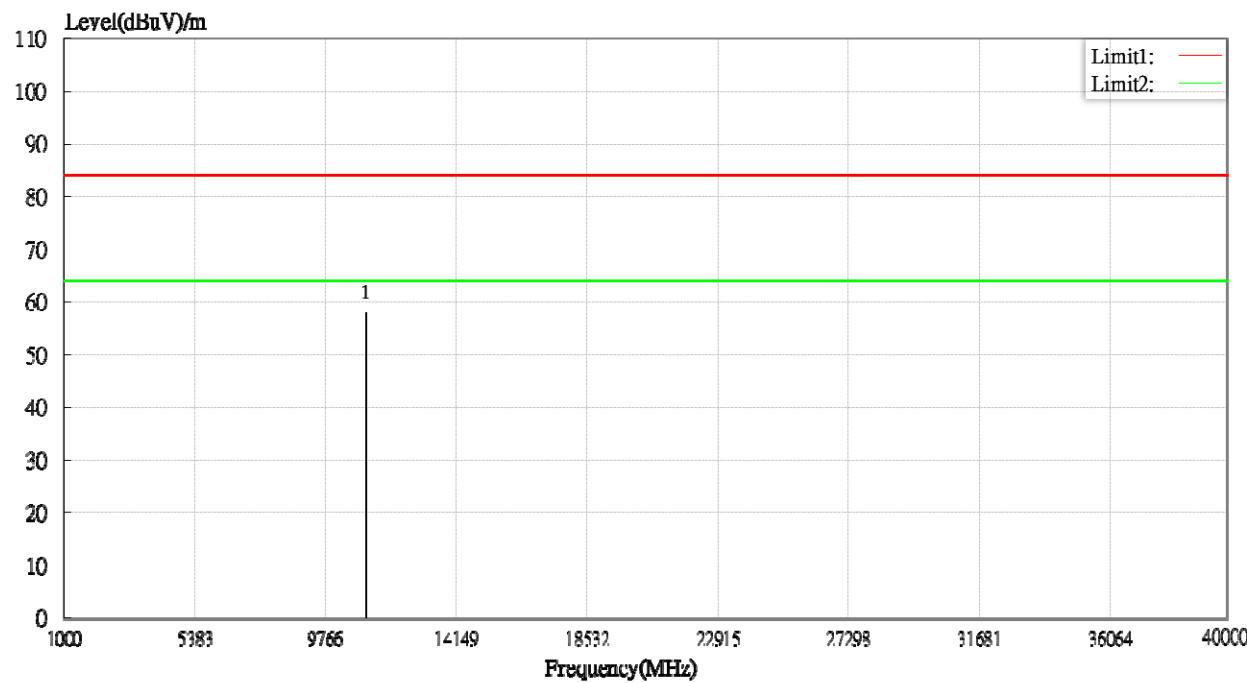


HT/VHT40 mode 5550 MHz Horizontal XOR

PK

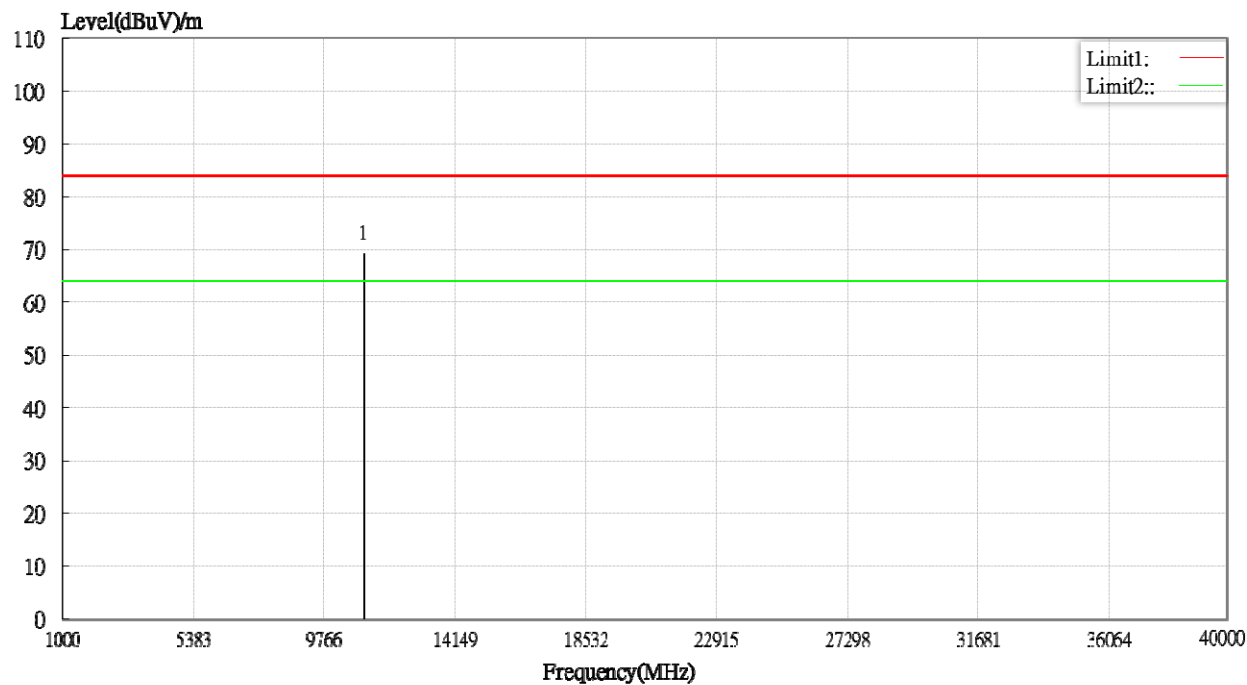


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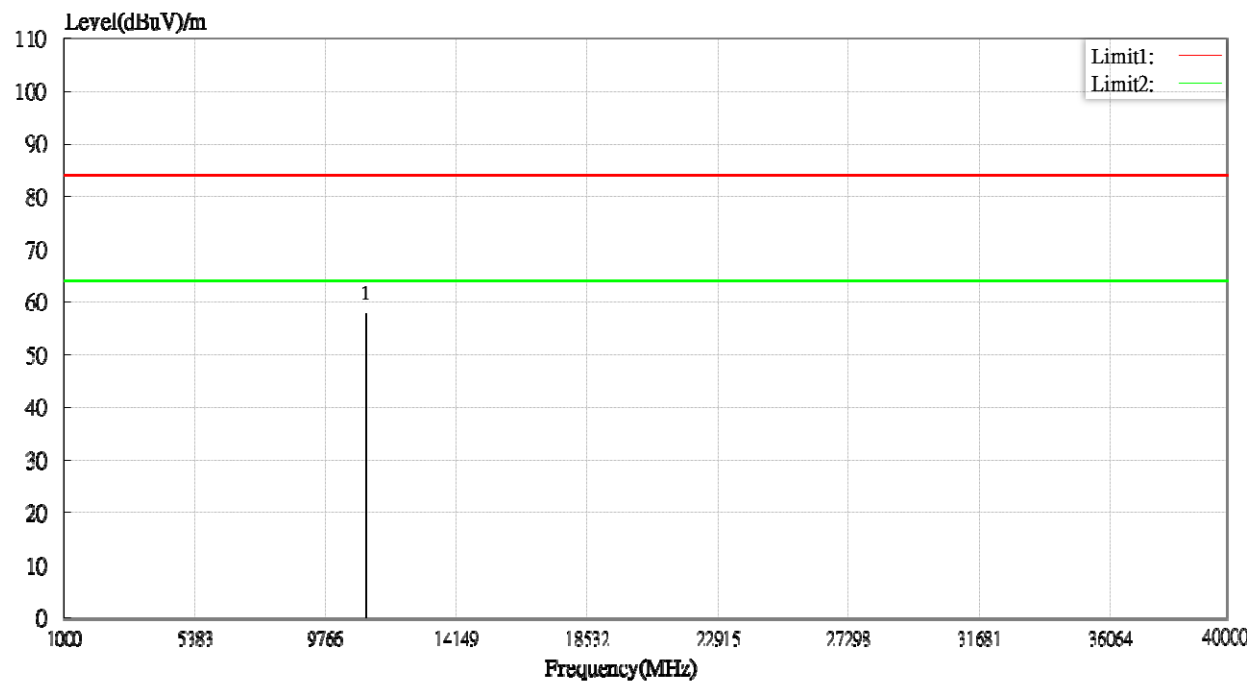


HT/VHT40 mode 5550 MHz Vertical XOR

PK

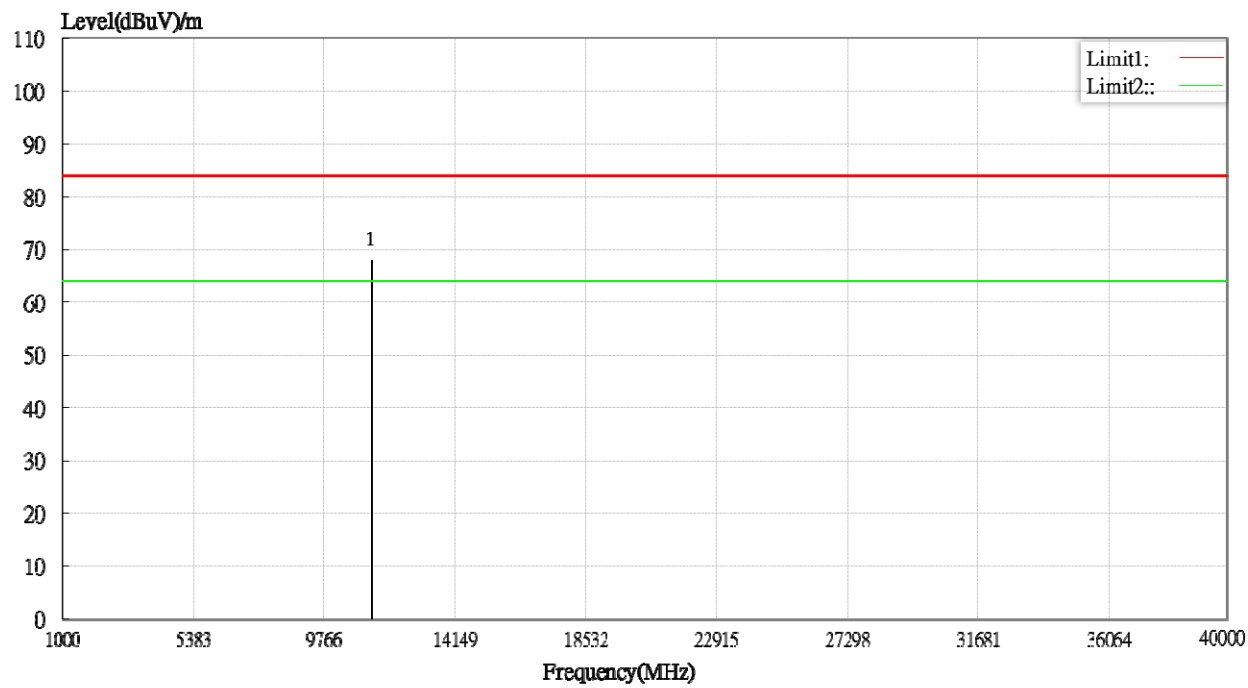


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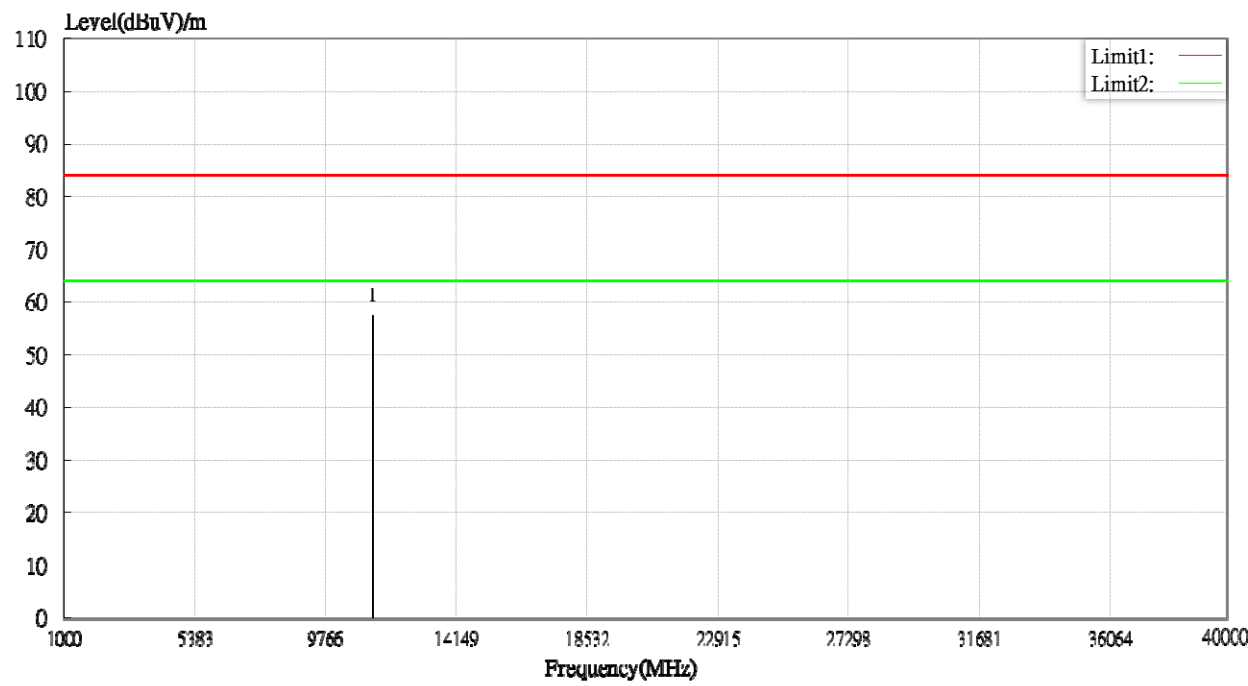


HT/VHT40 mode 5670 MHz Horizontal XOR

PK

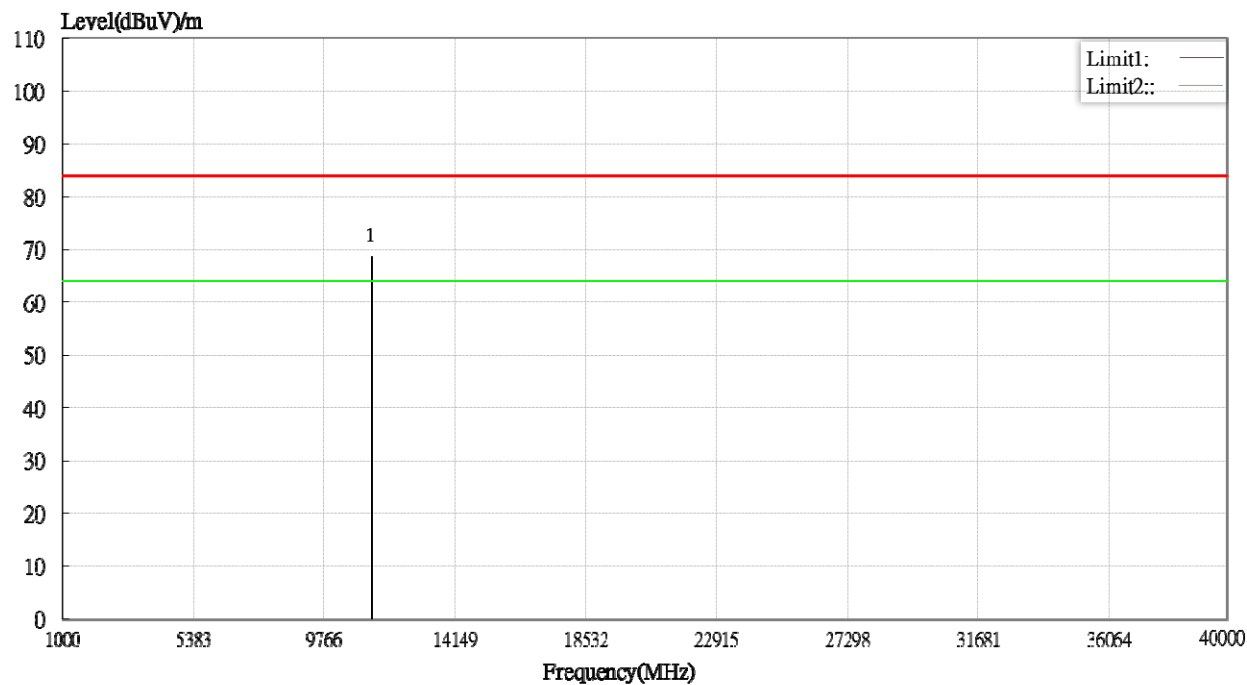


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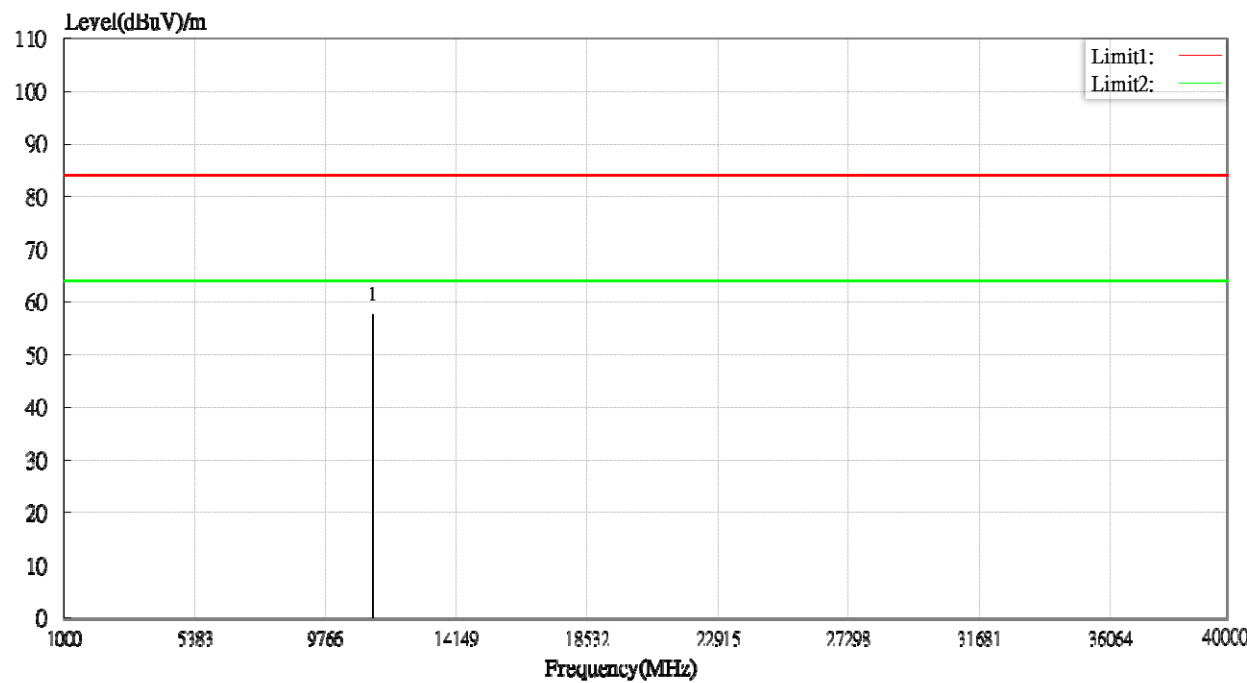


HT/VHT40 mode 5670 MHz Vertical XOR

PK

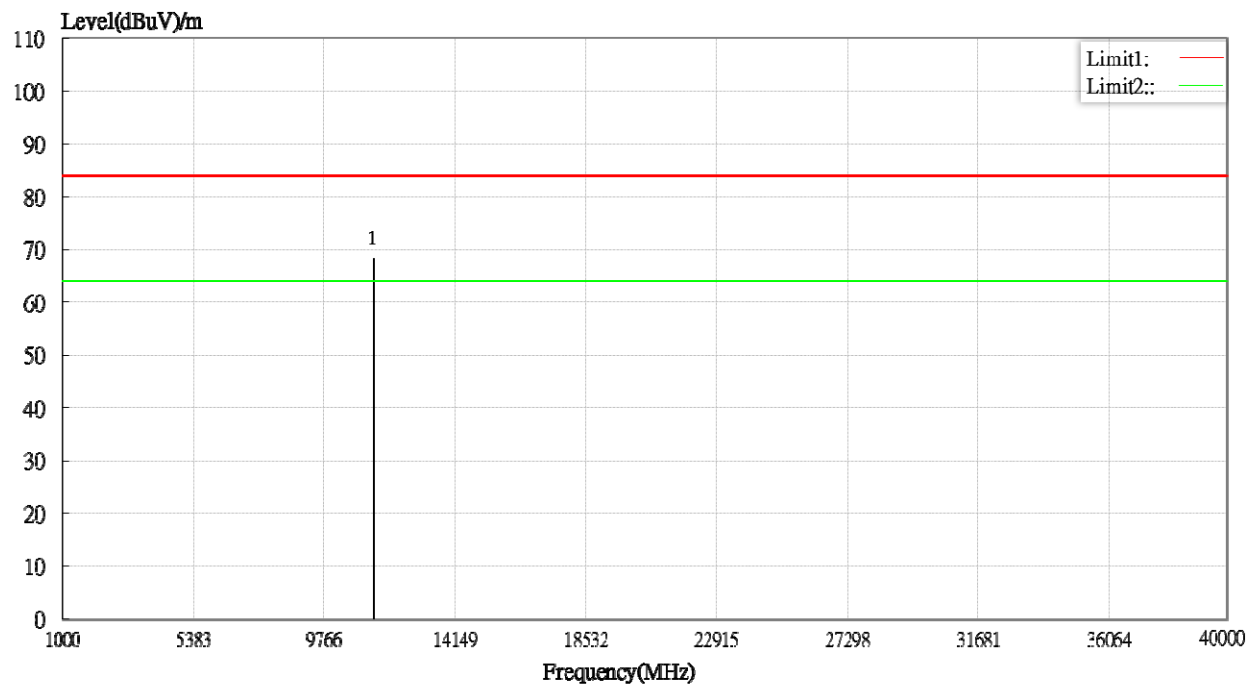


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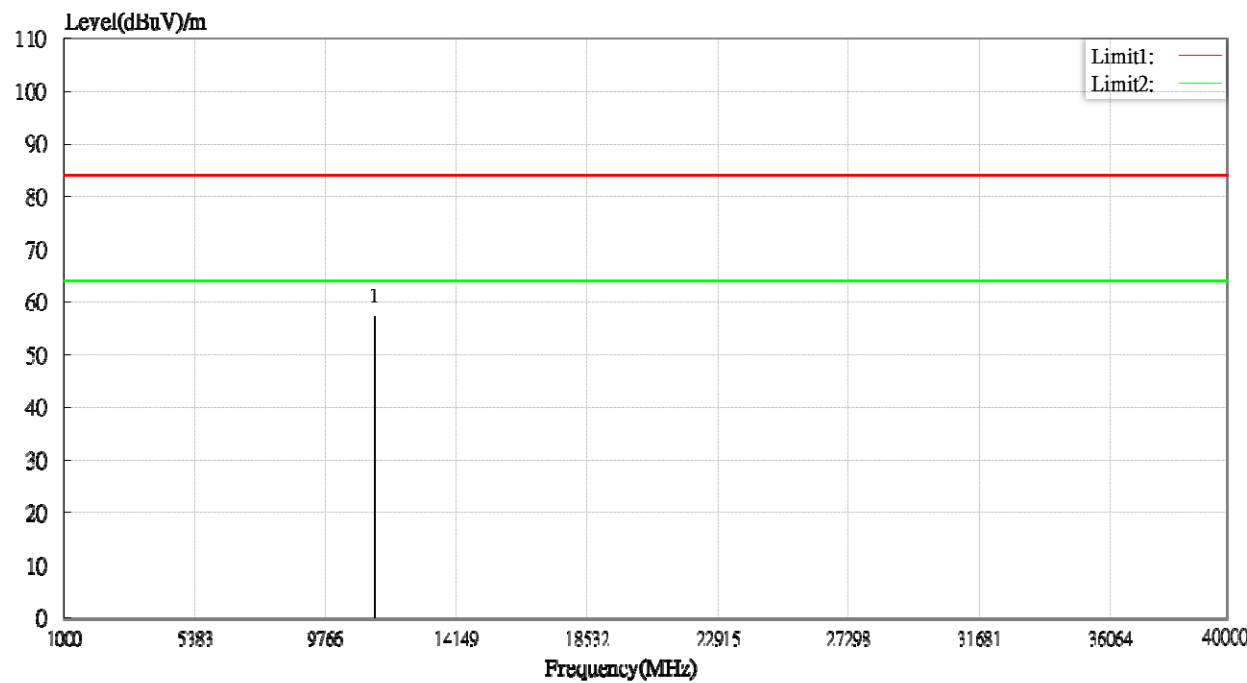


HT/VHT40 mode 5710 MHz Horizontal XOR

PK

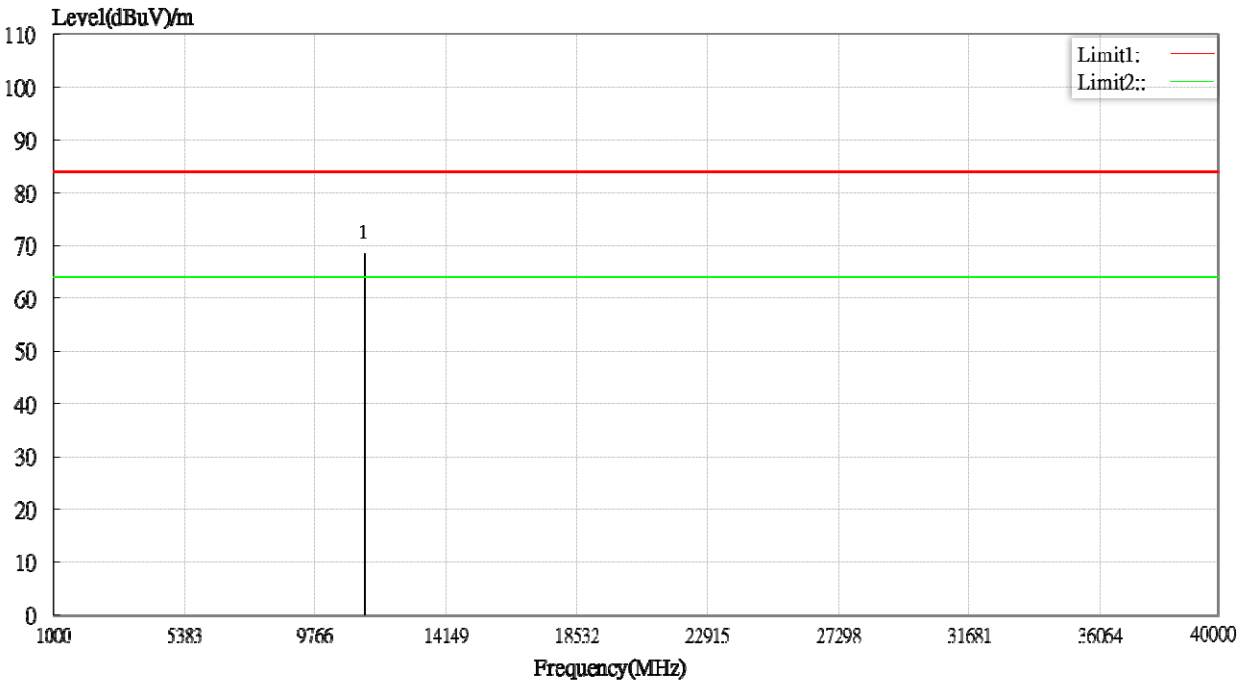


AVG

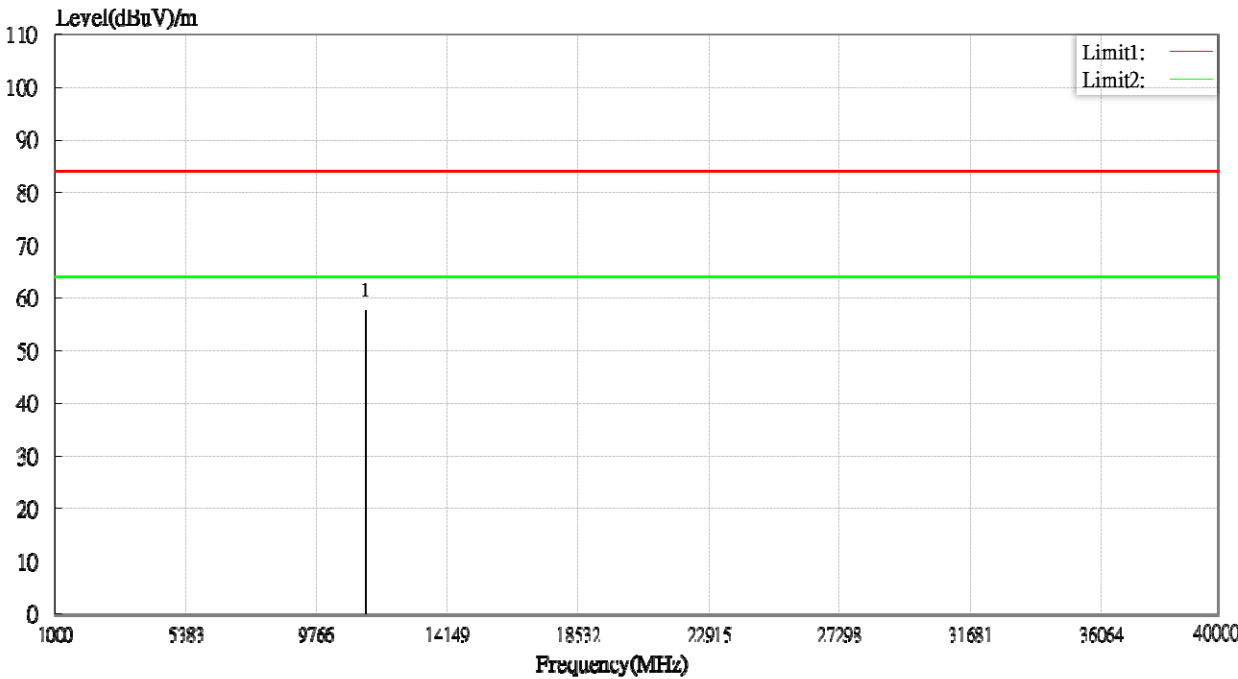


HT/VHT40 mode 5710 MHz Vertical XOR

PK

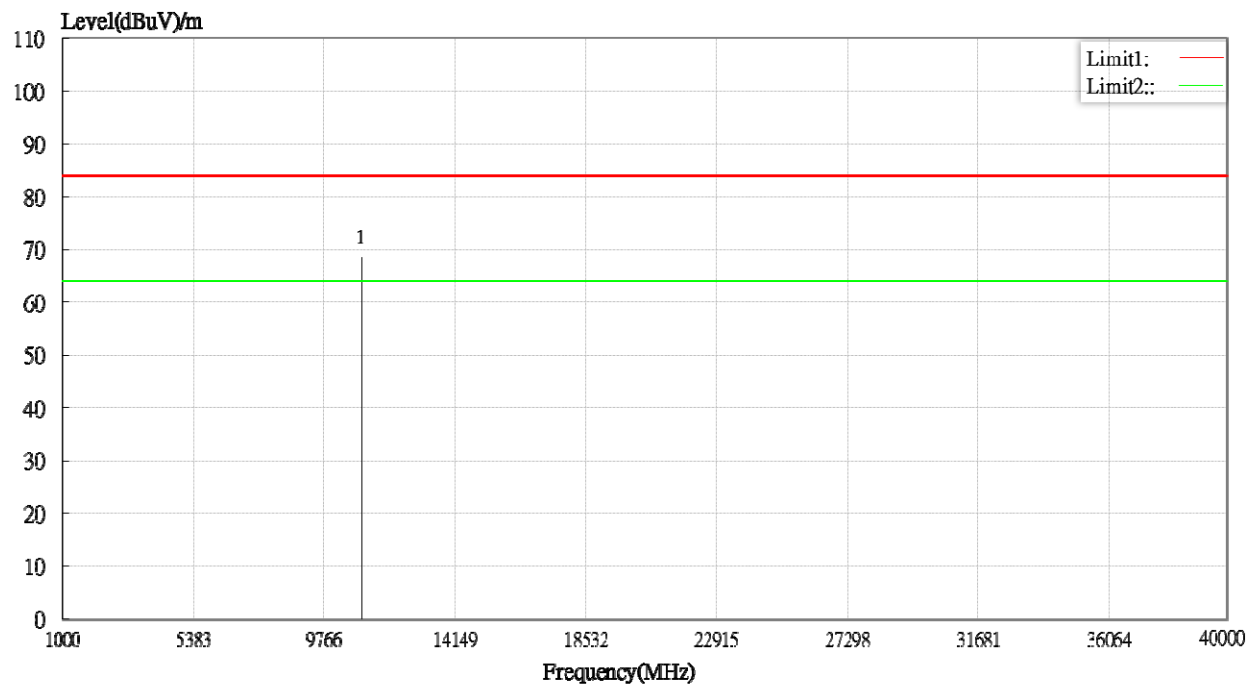


AVG

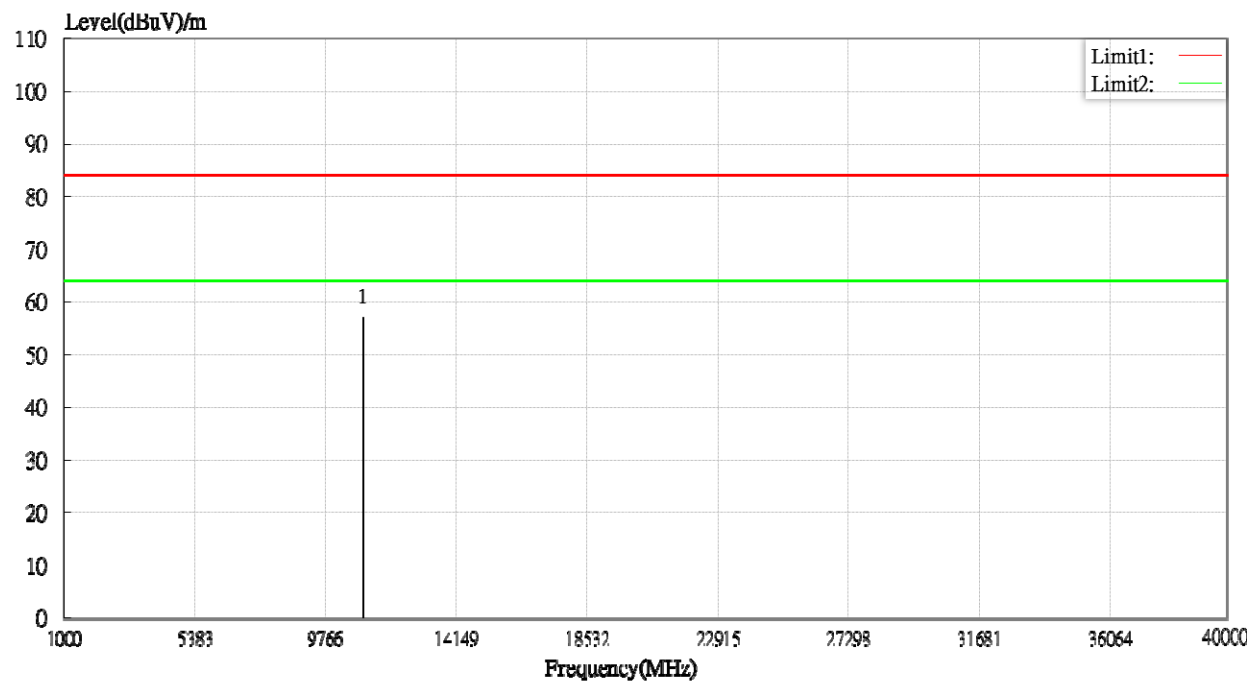


HE40 mode 5510 MHz Horizontal XOR

PK

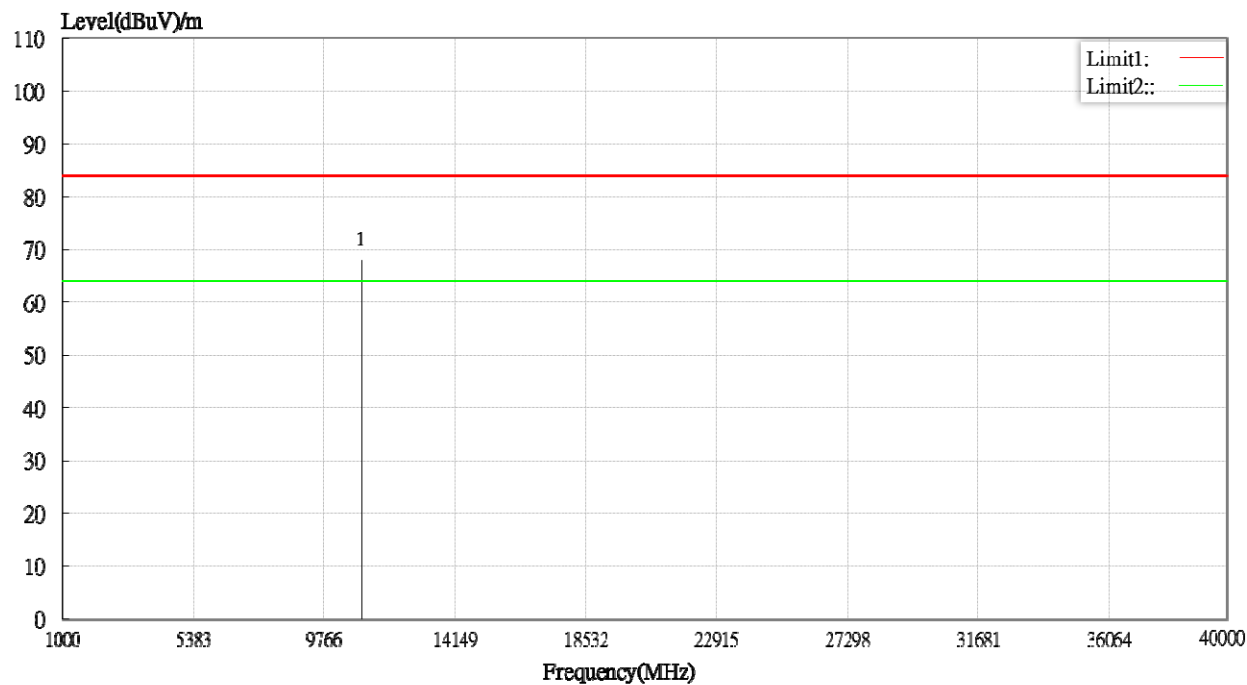


AVG

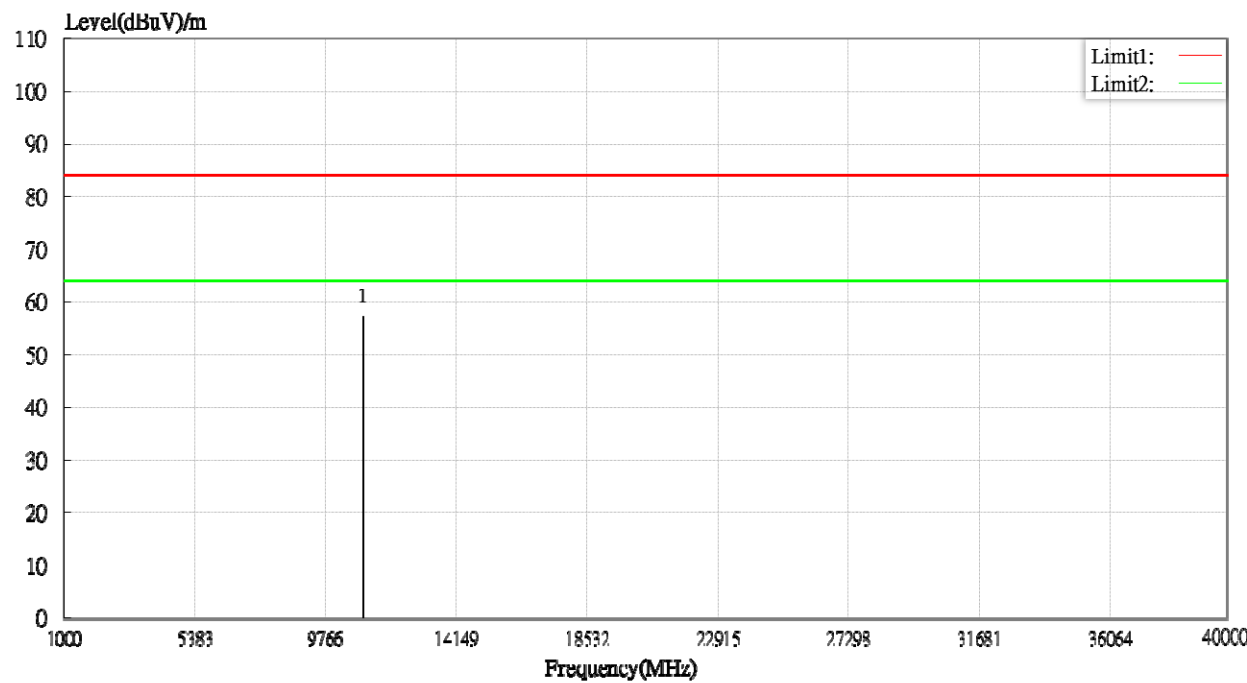


HE40 mode 5510 MHz Vertical XOR

PK

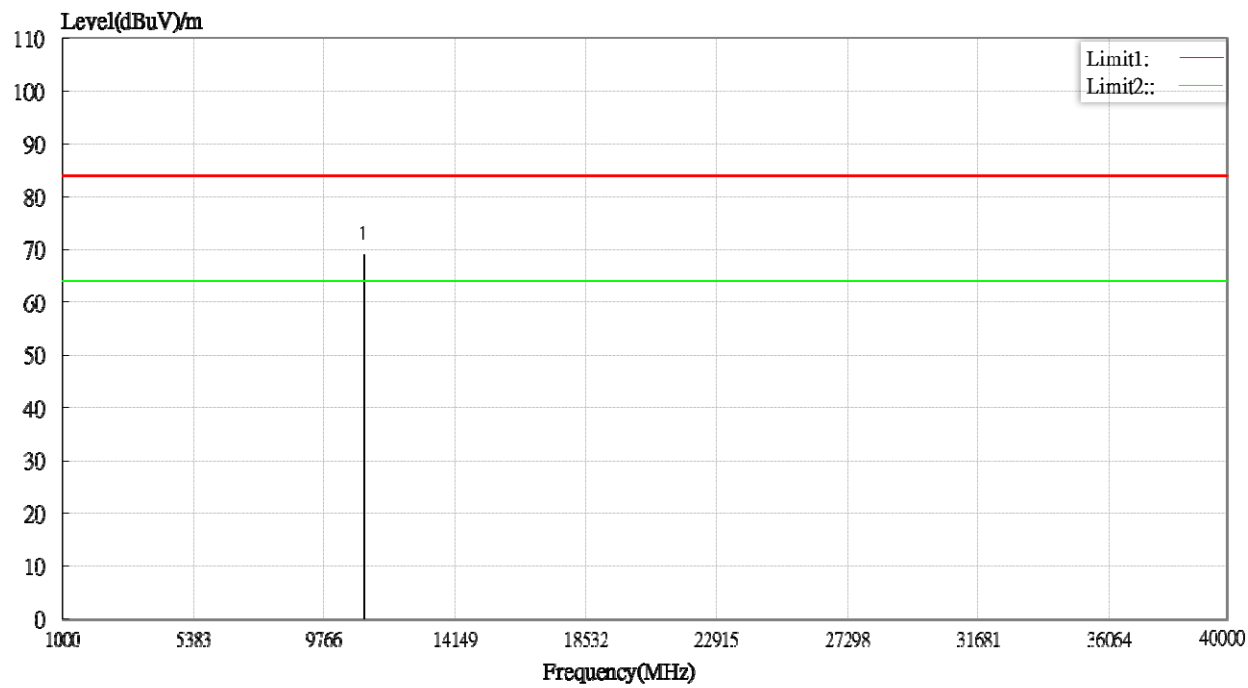


AVG

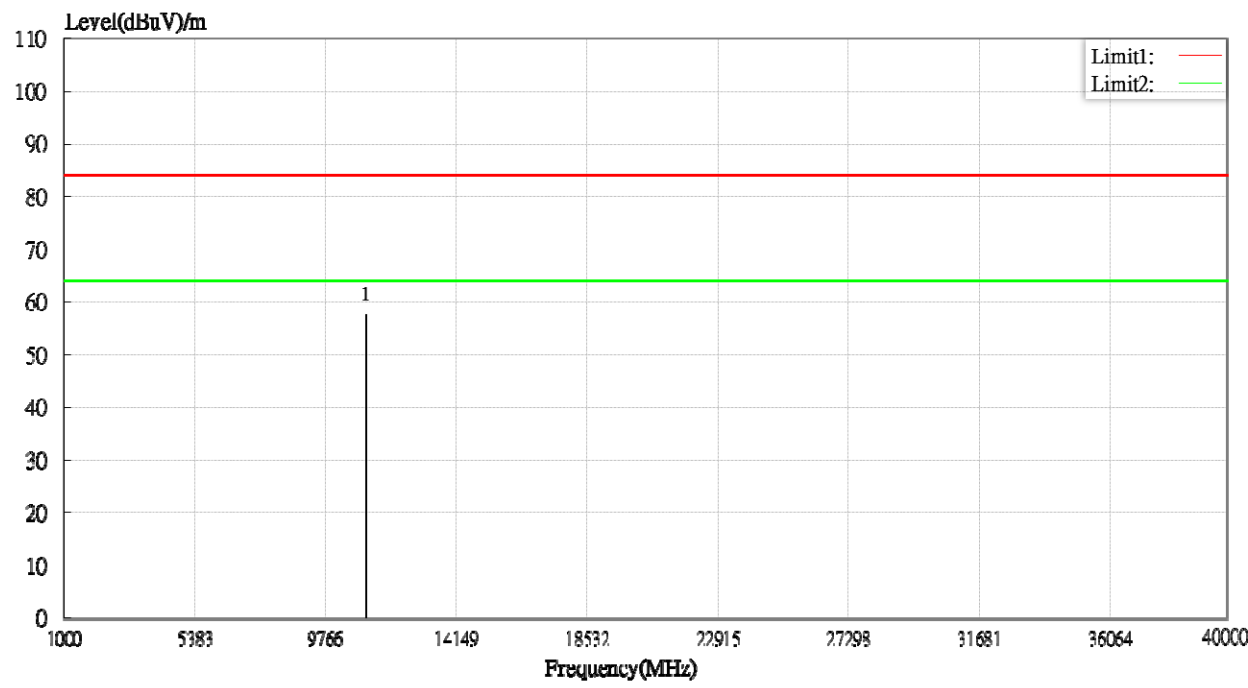


HE40 mode 5550 MHz Horizontal XOR

PK

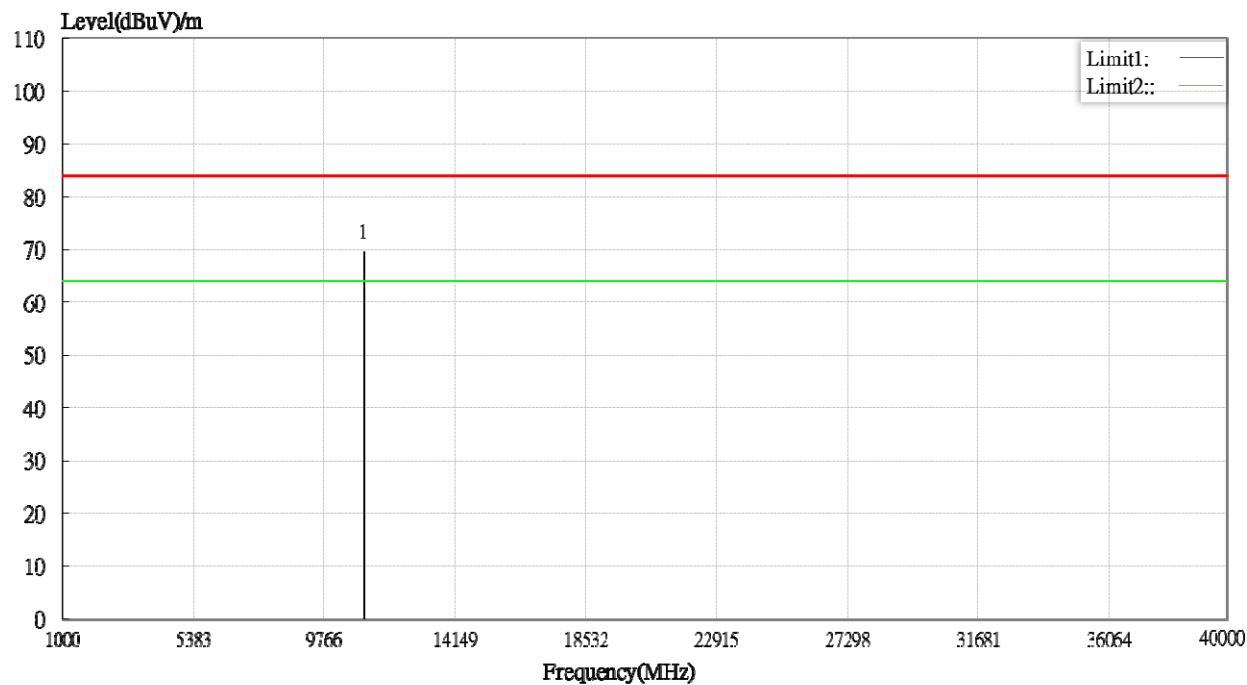


AVG

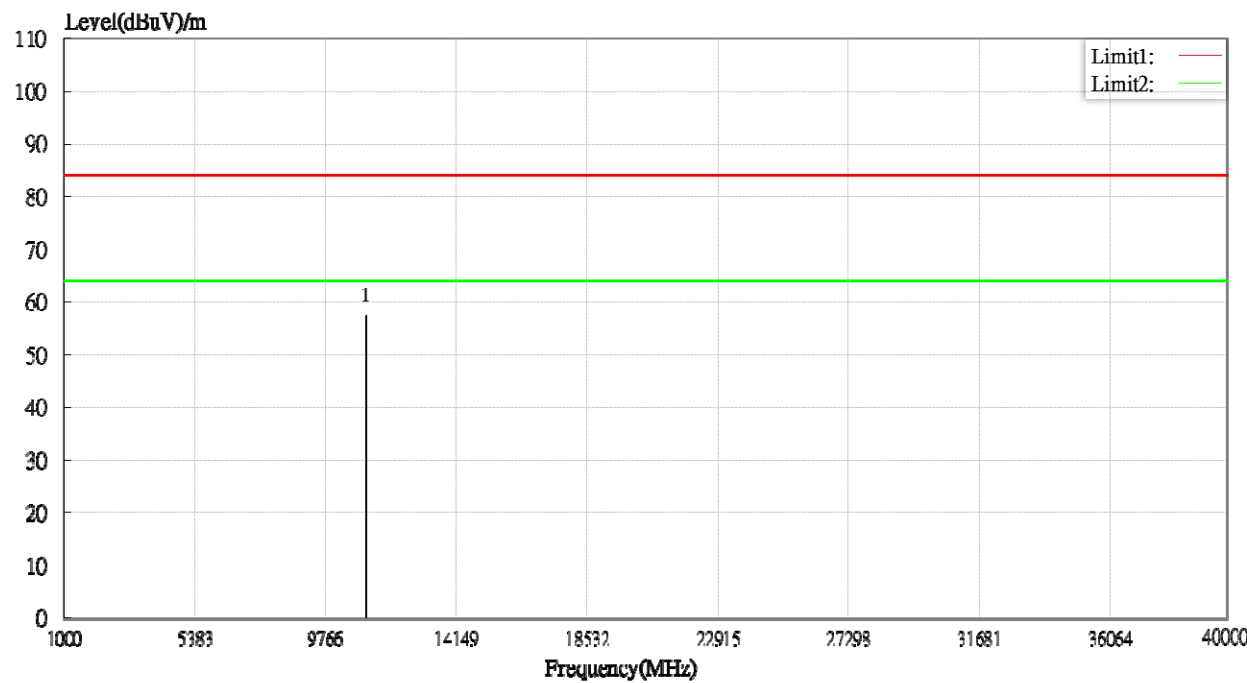


HE40 mode 5550 MHz Vertical XOR

PK

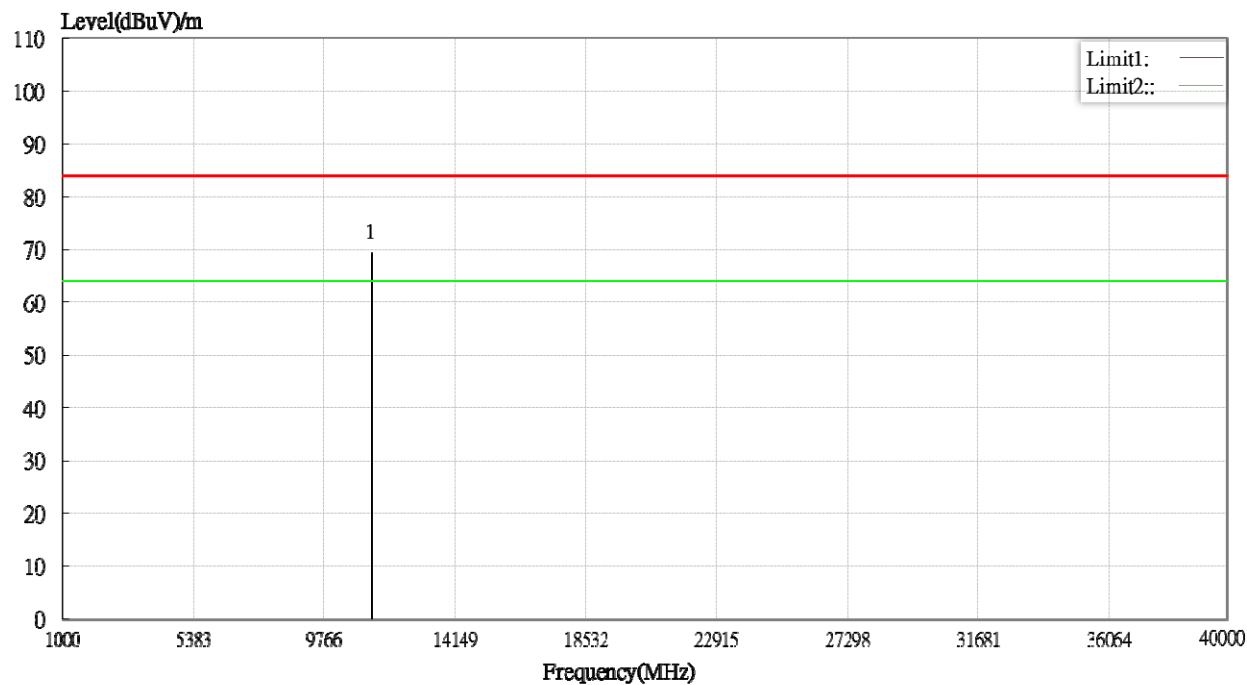


AVG

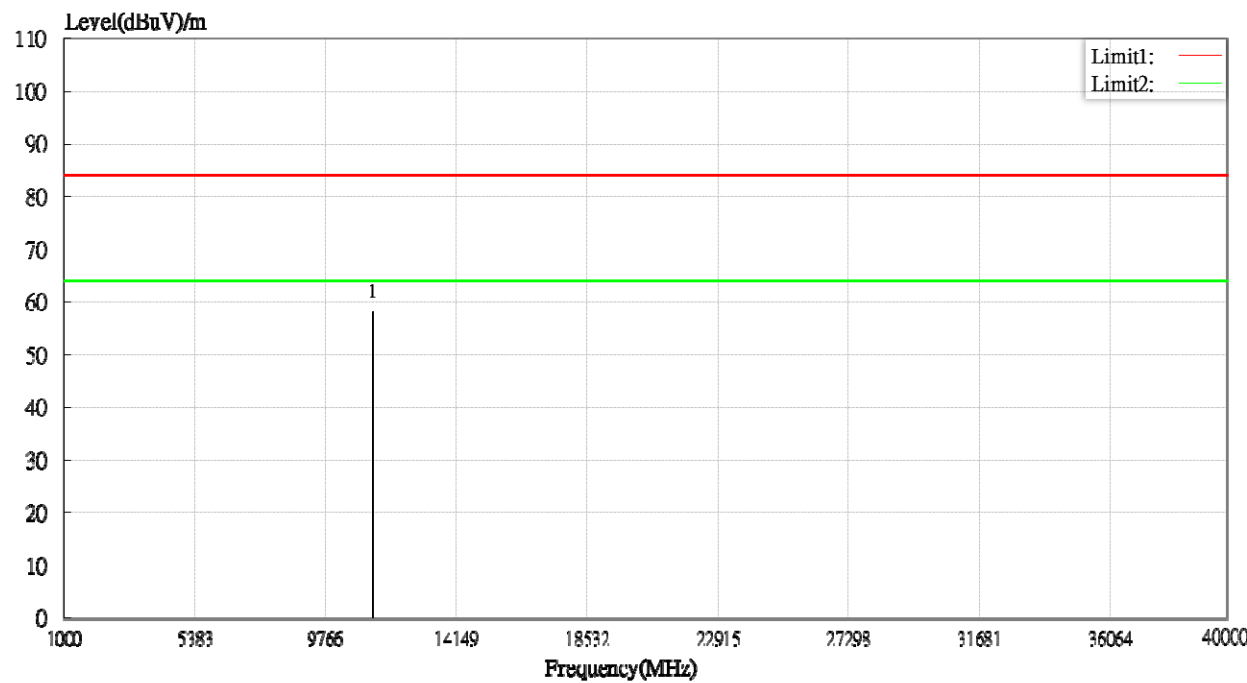


HE40 mode 5670 MHz Horizontal XOR

PK

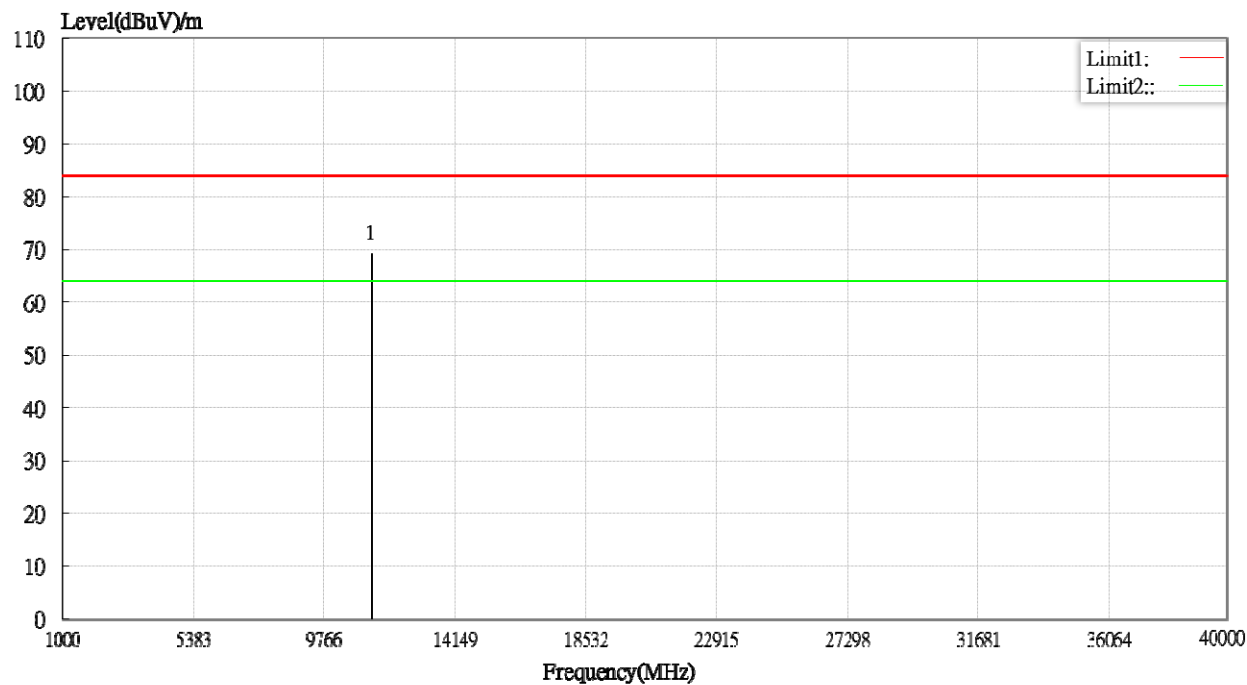


AVG

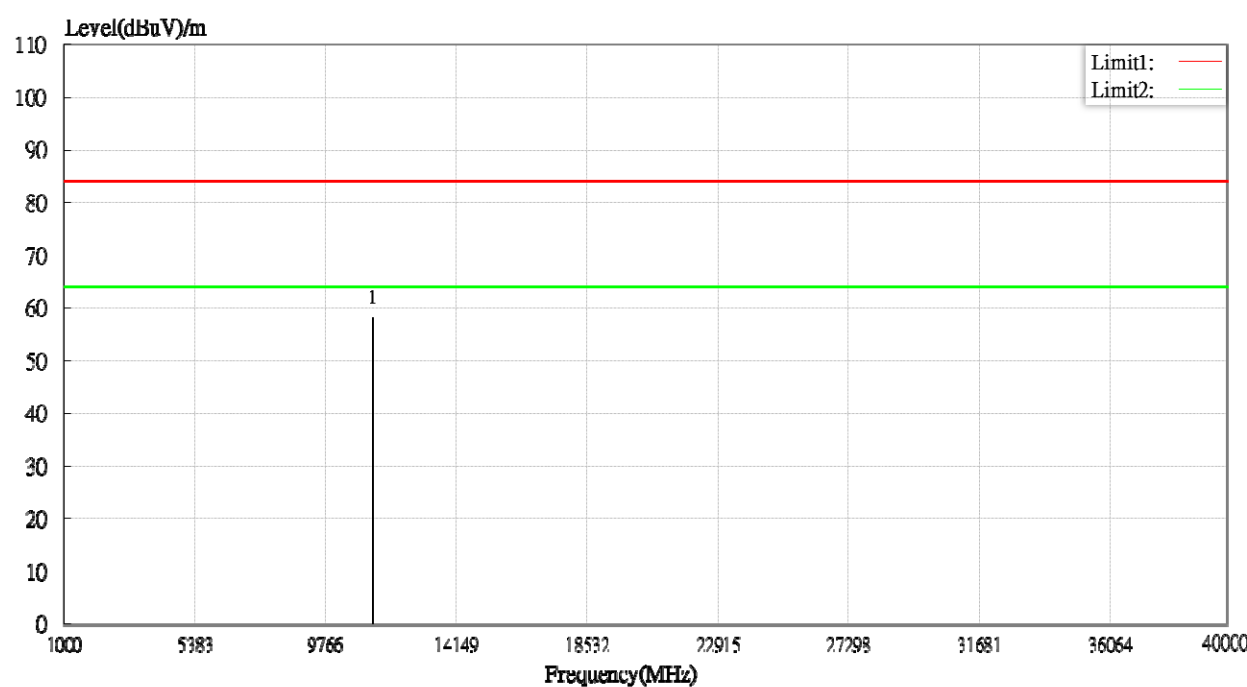


HE40 mode 5670 MHz Vertical XOR

PK

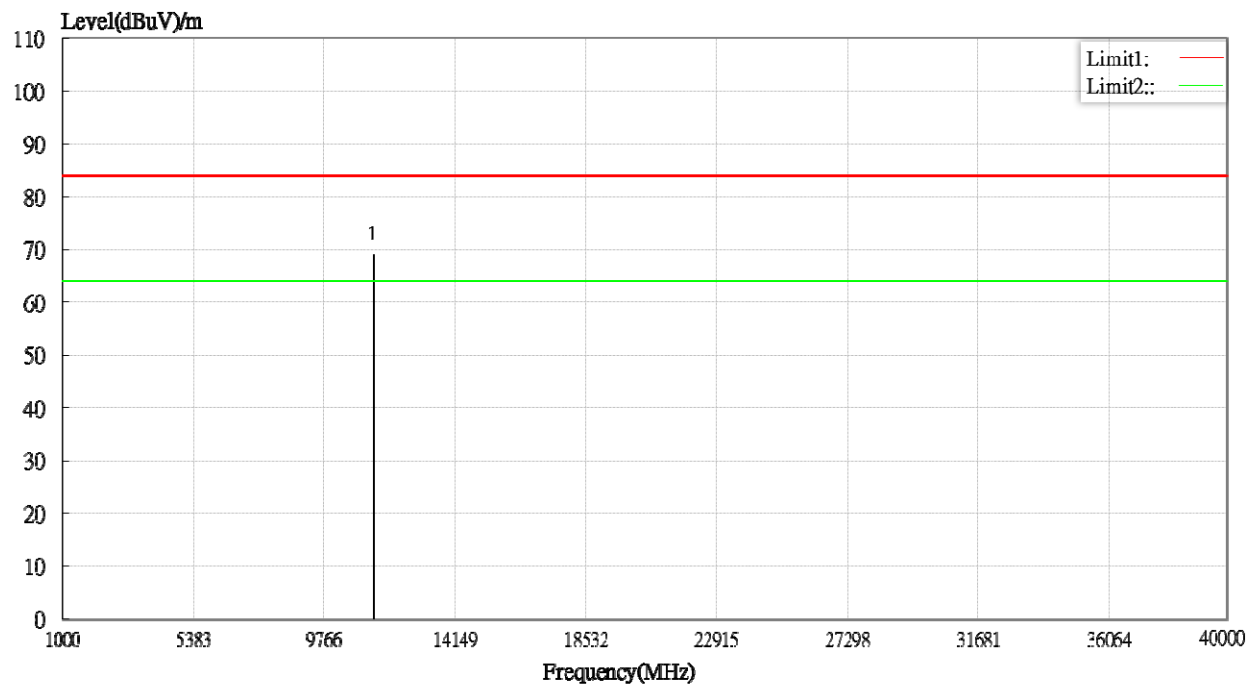


AVG

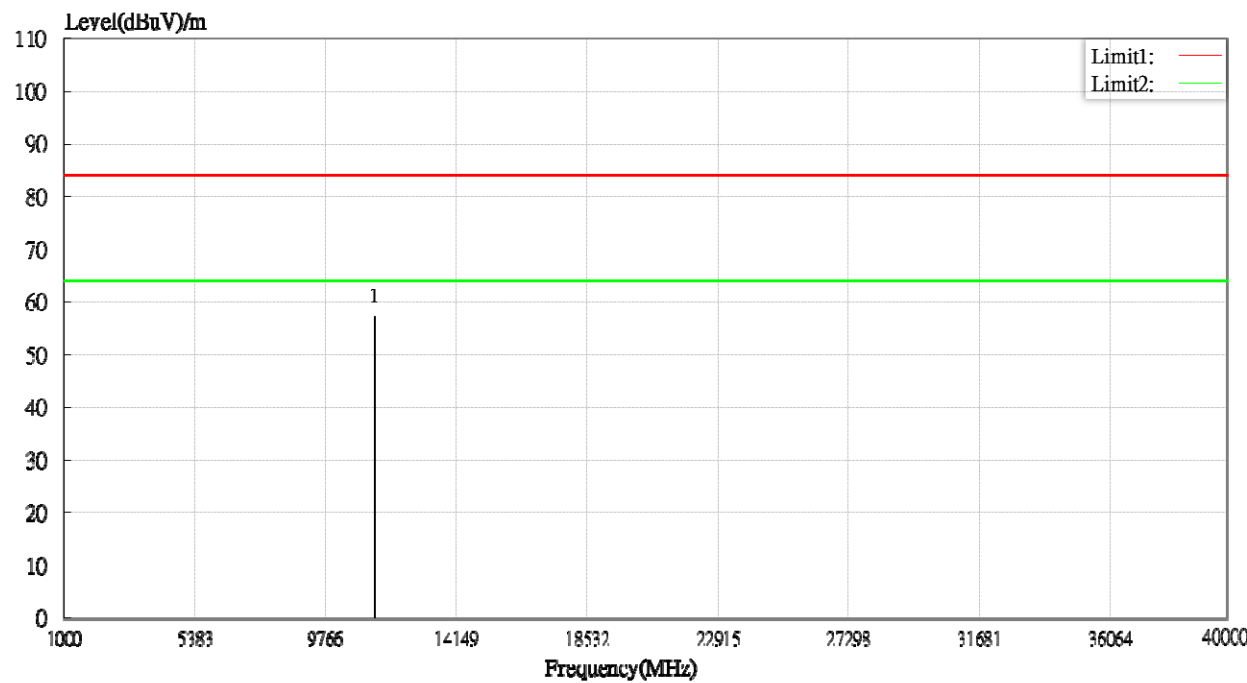


HE40 mode 5710 MHz Horizontal XOR

PK

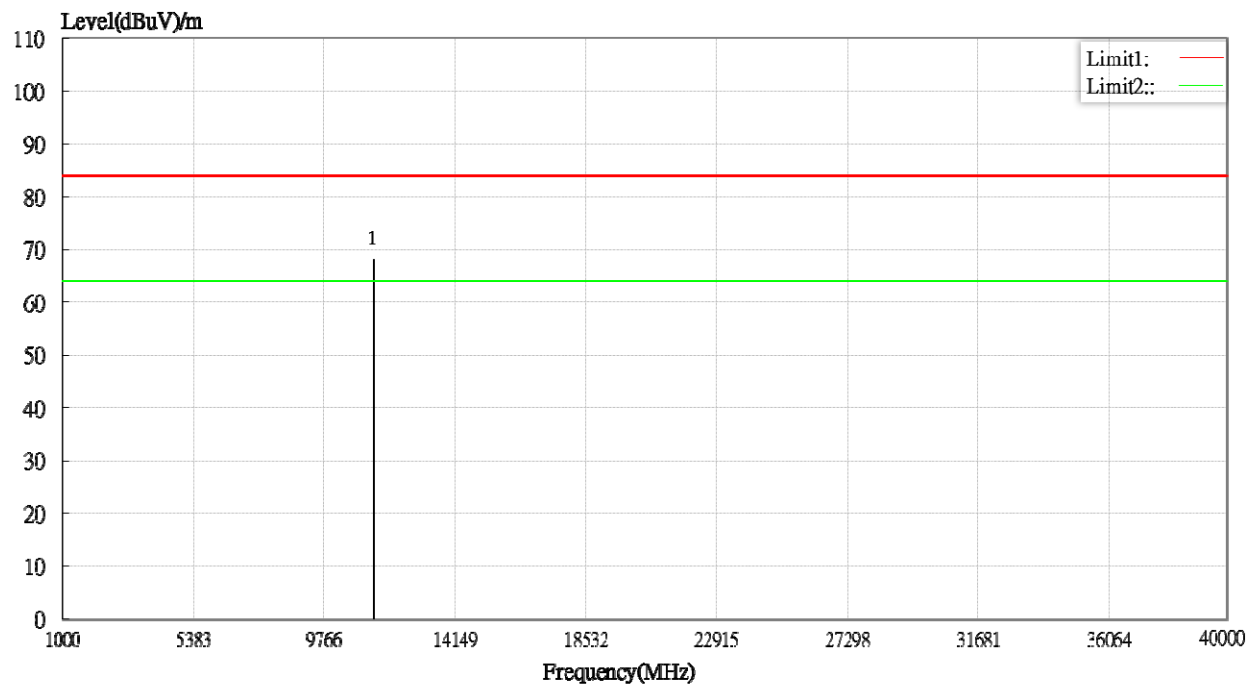


AVG

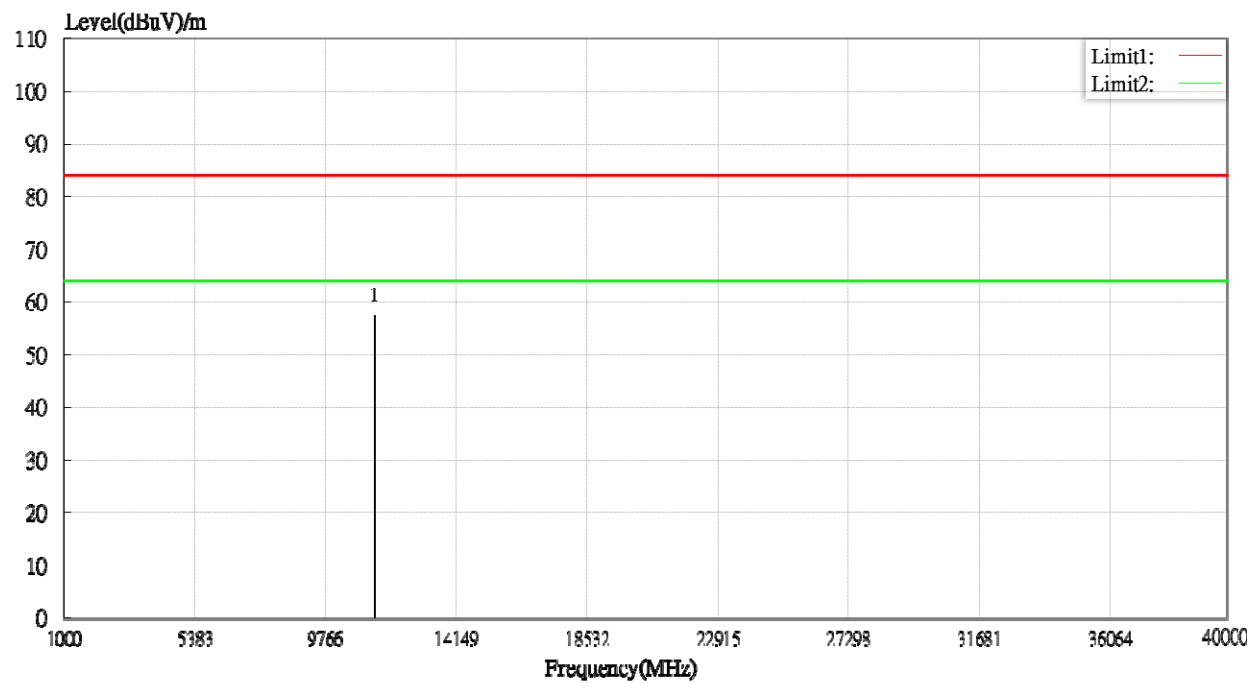


HE40 mode 5710 MHz Vertical XOR

PK

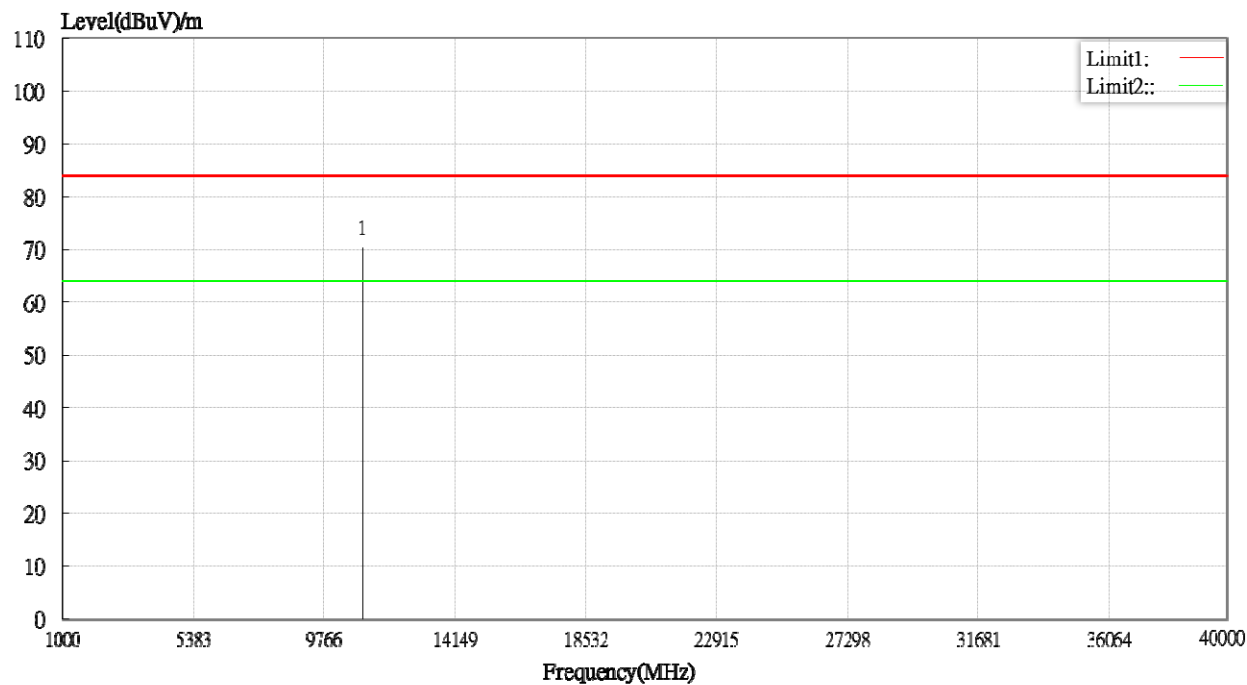


AVG

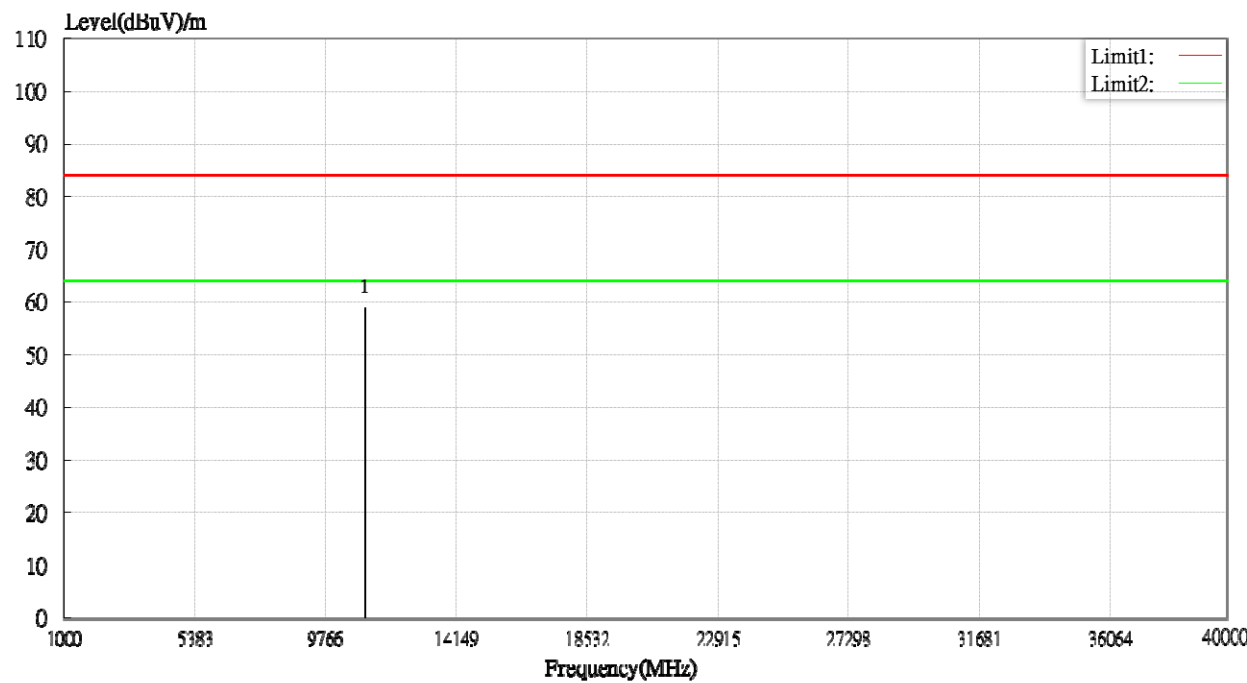


Non HT80 mode 5530 MHz Horizontal XOR

PK

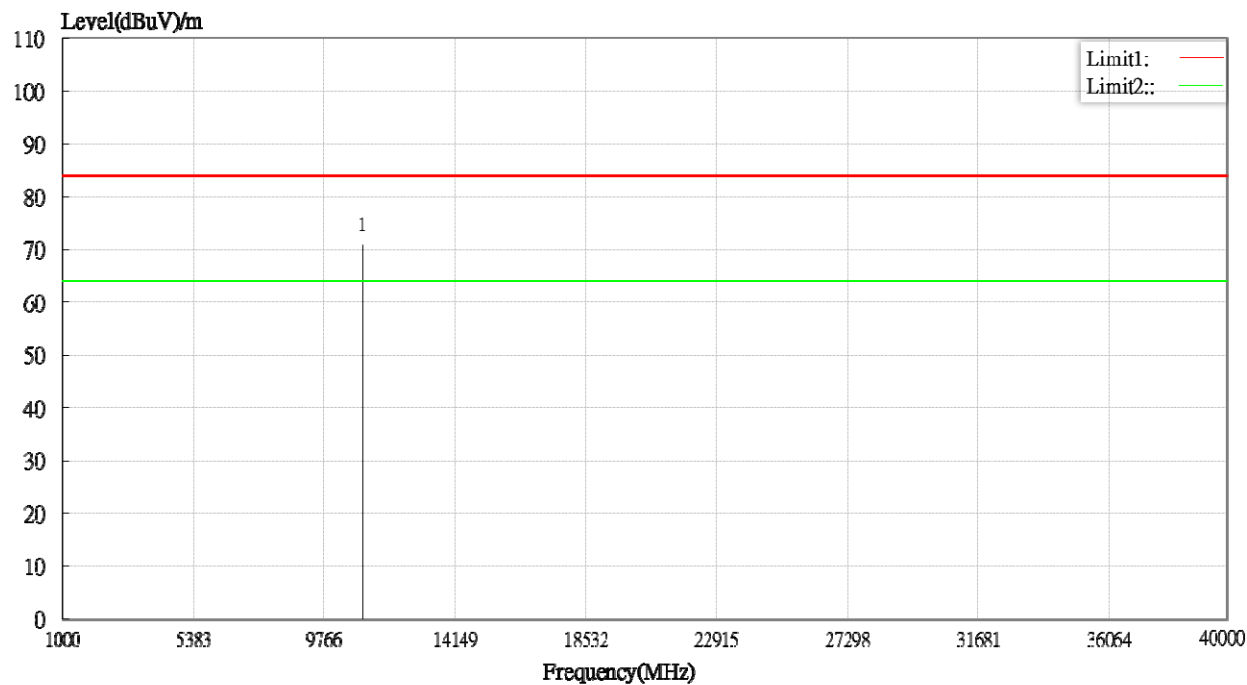


AVG

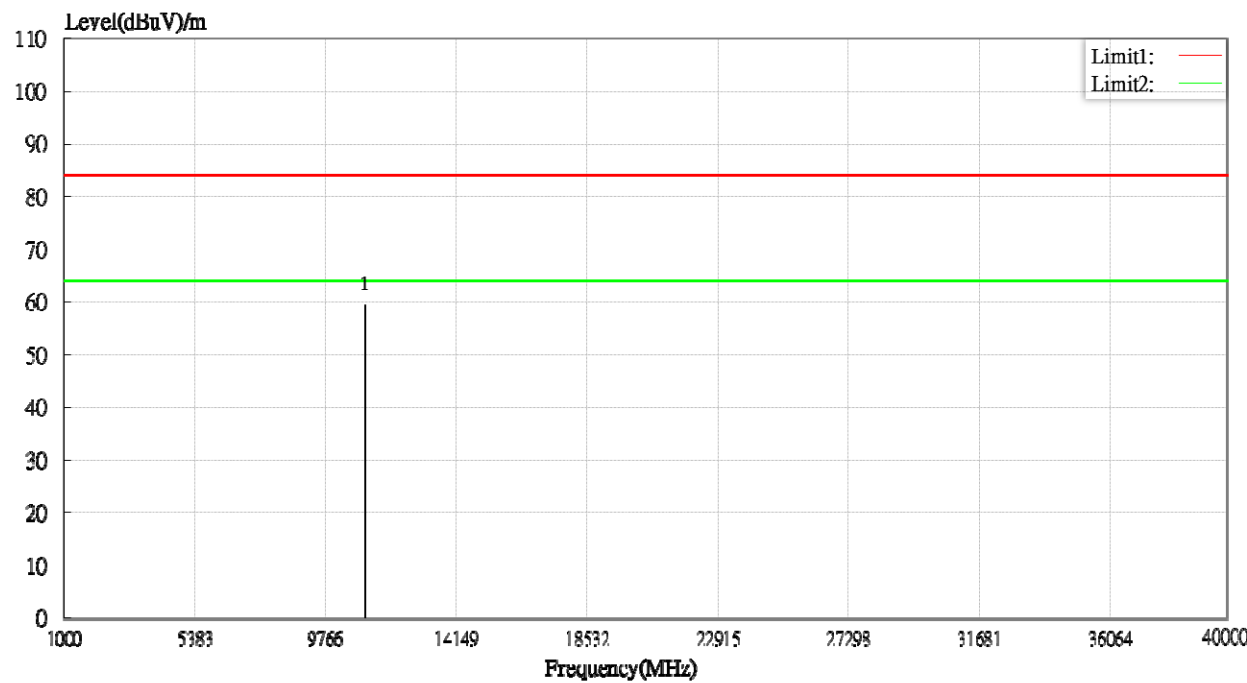


Non HT80 mode 5530 MHz Vertical XOR

PK

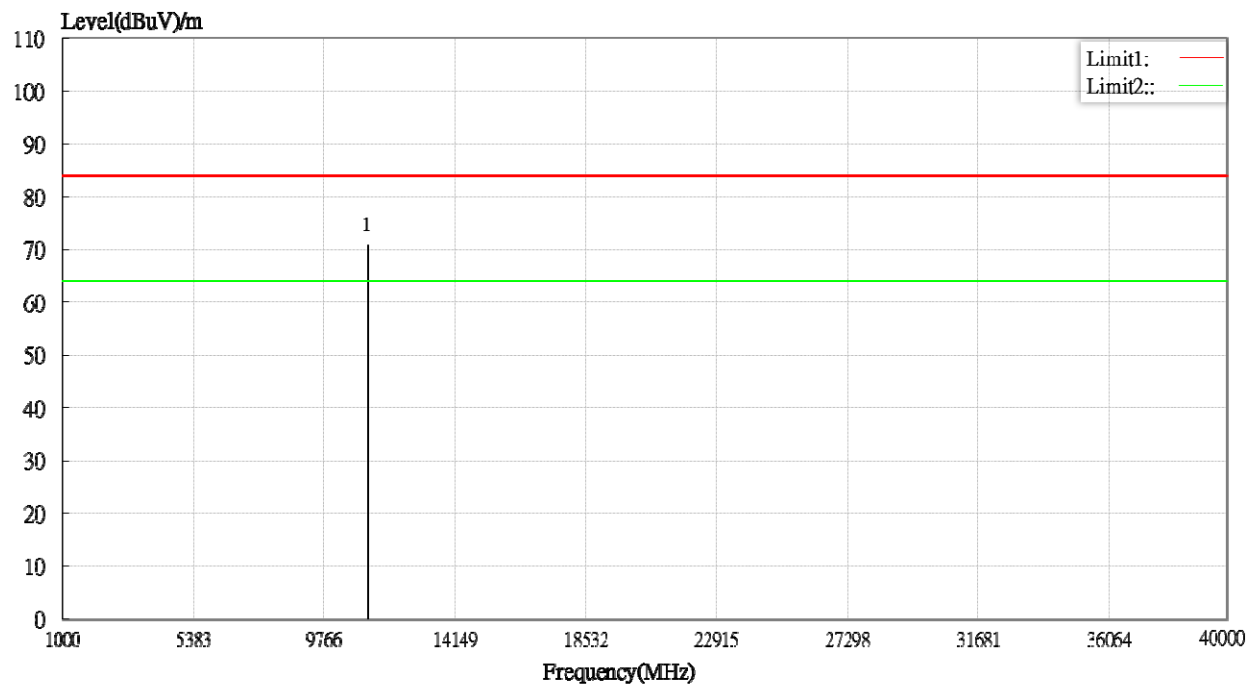


AVG

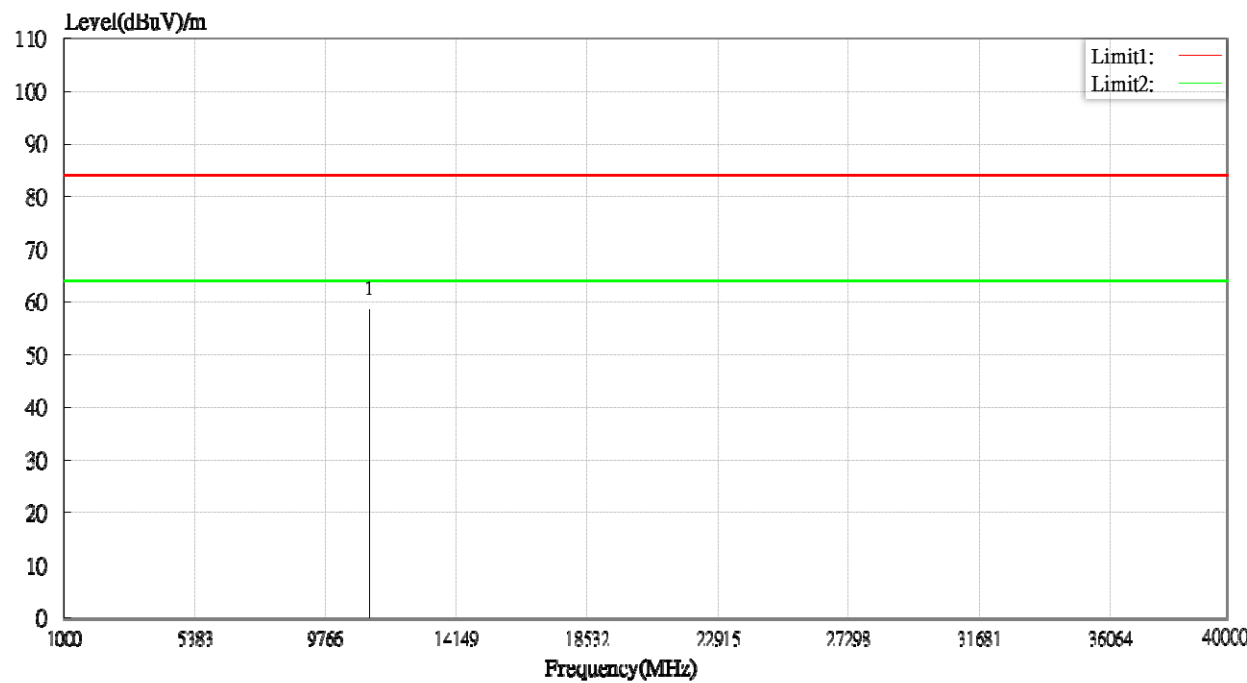


Non HT80 mode 5610 MHz Horizontal XOR

PK

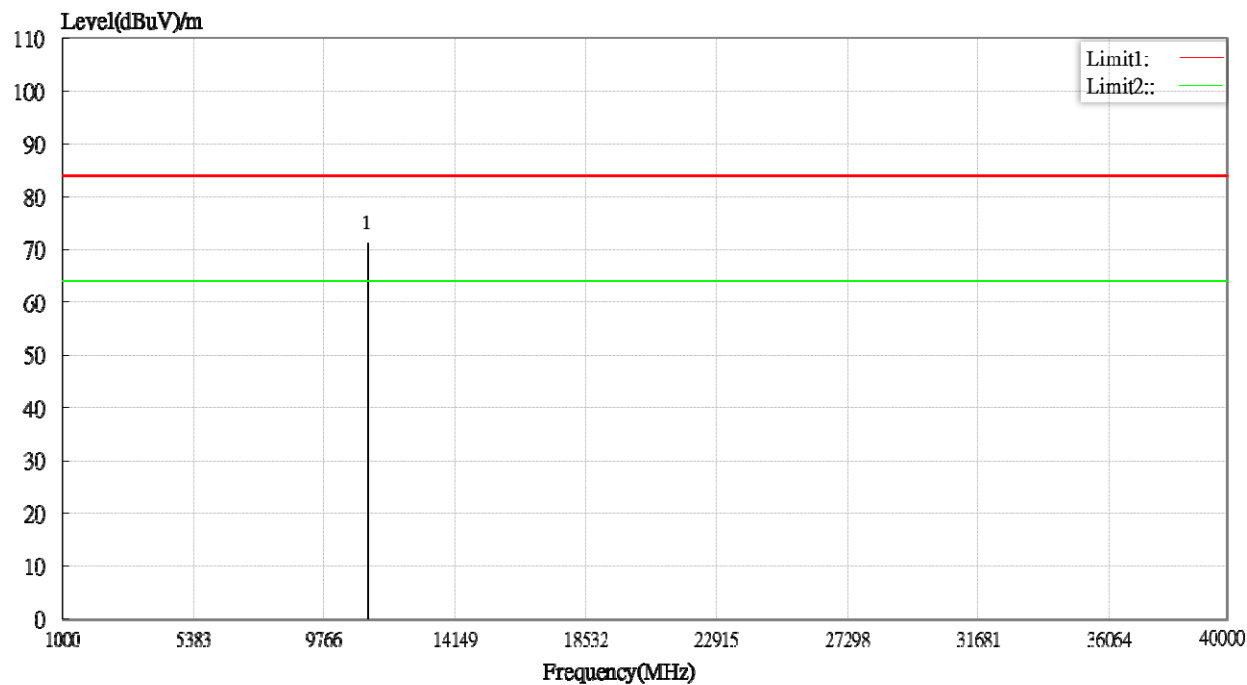


AVG

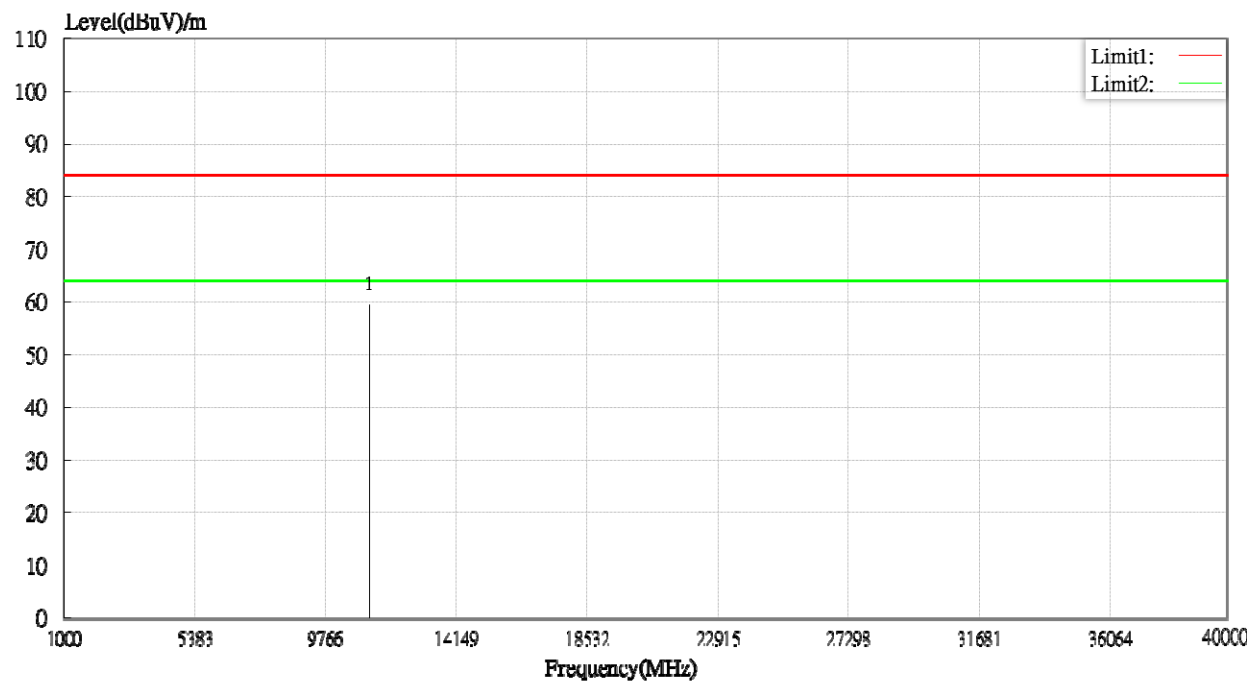


Non HT80 mode 5610 MHz Vertical XOR

PK

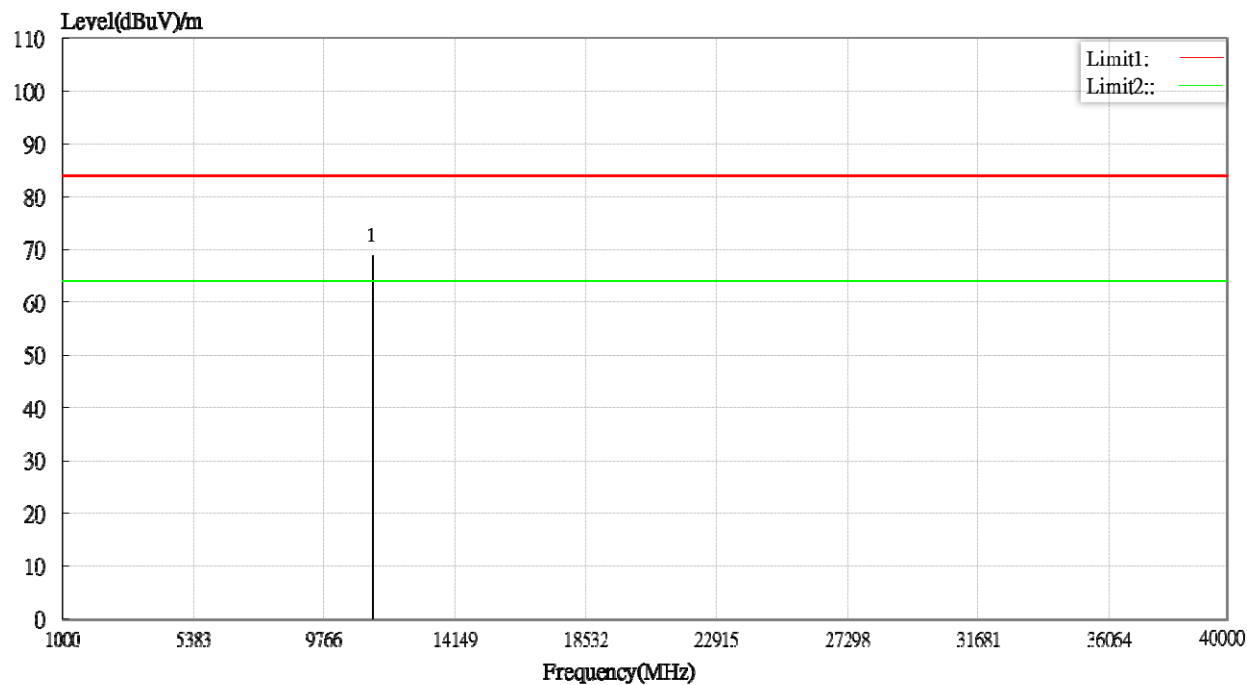


AVG

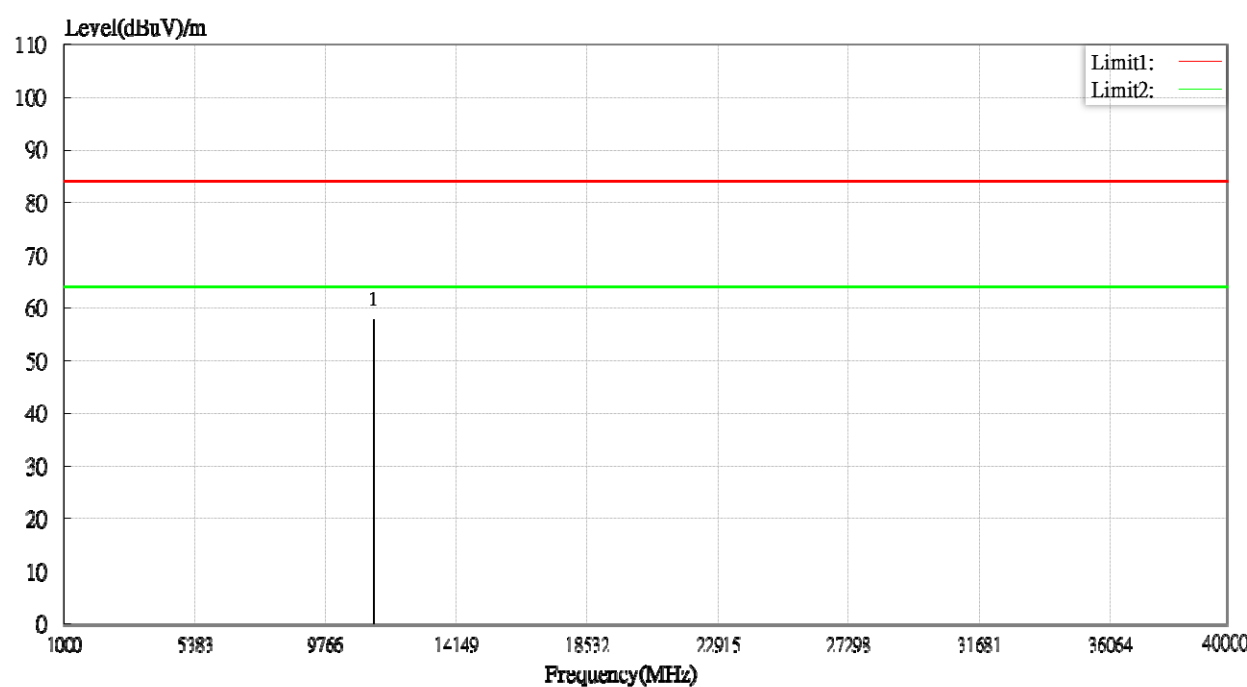


Non HT80 mode 5690 MHz Horizontal XOR

PK

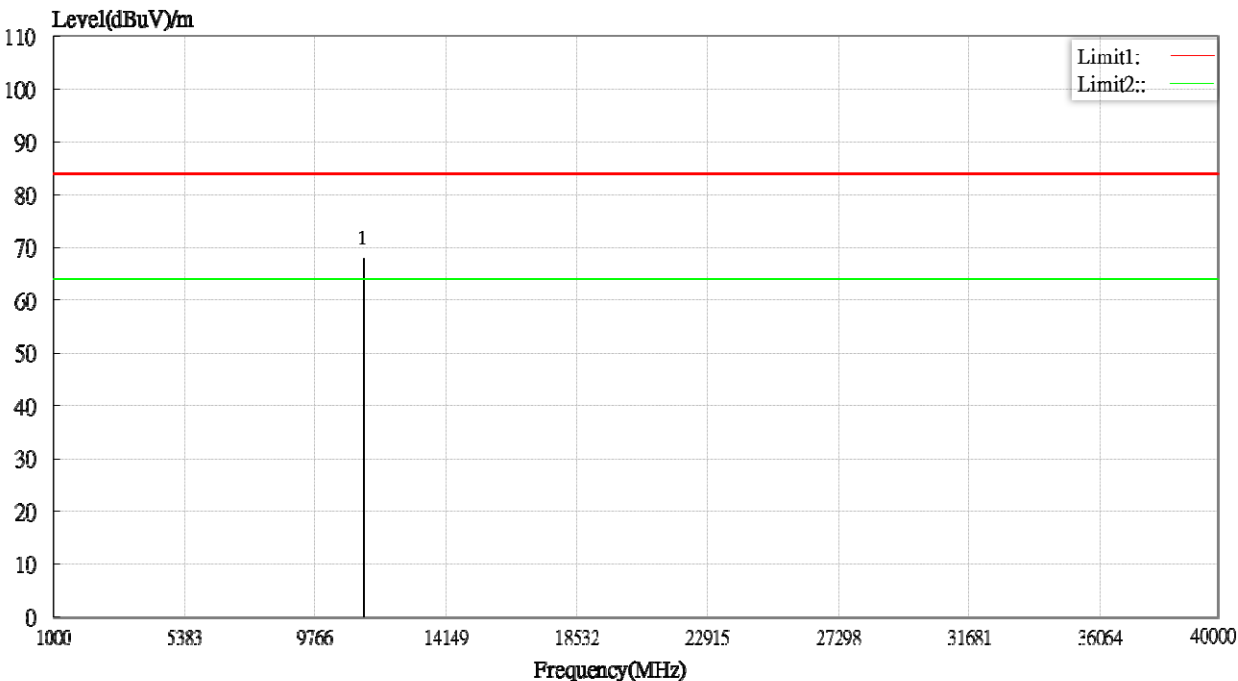


AVG

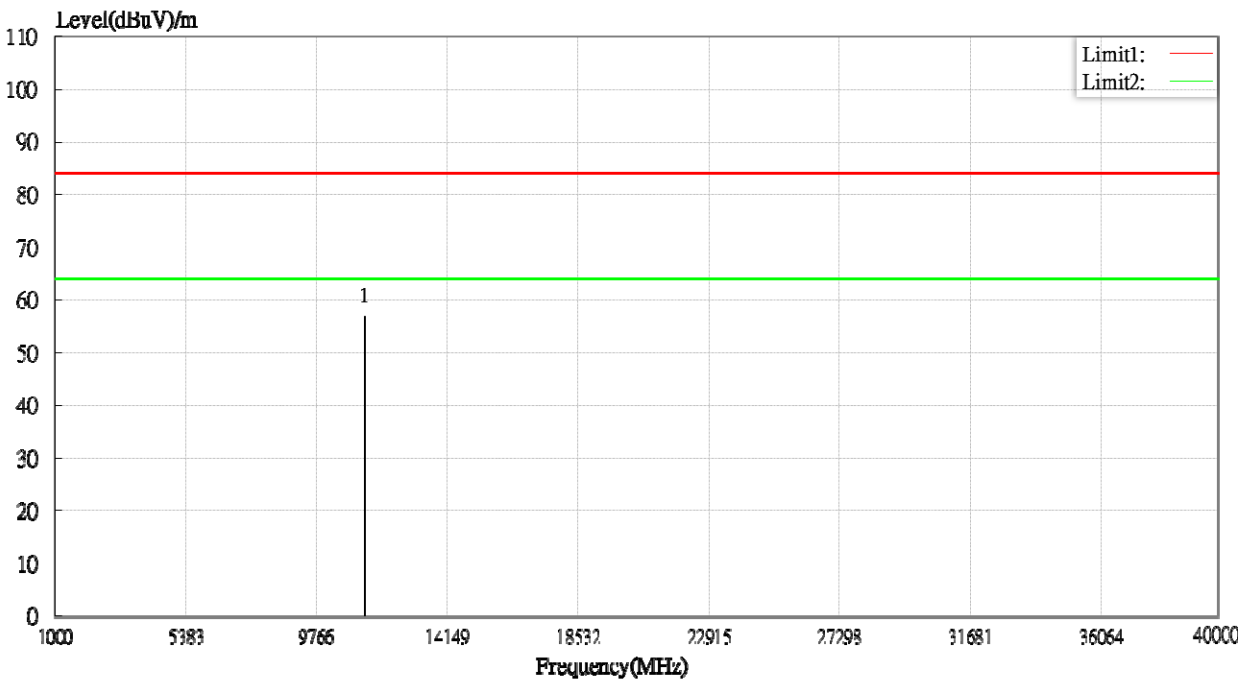


Non HT80 mode 5690 MHz Vertical XOR

PK

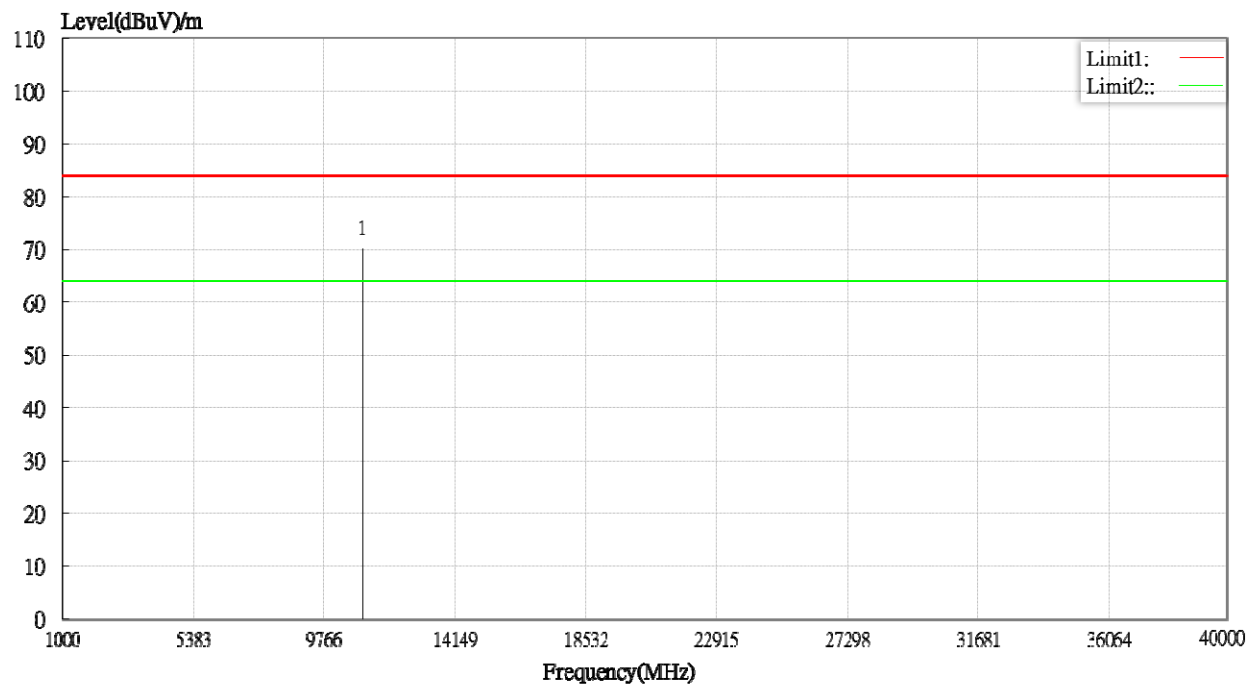


AVG

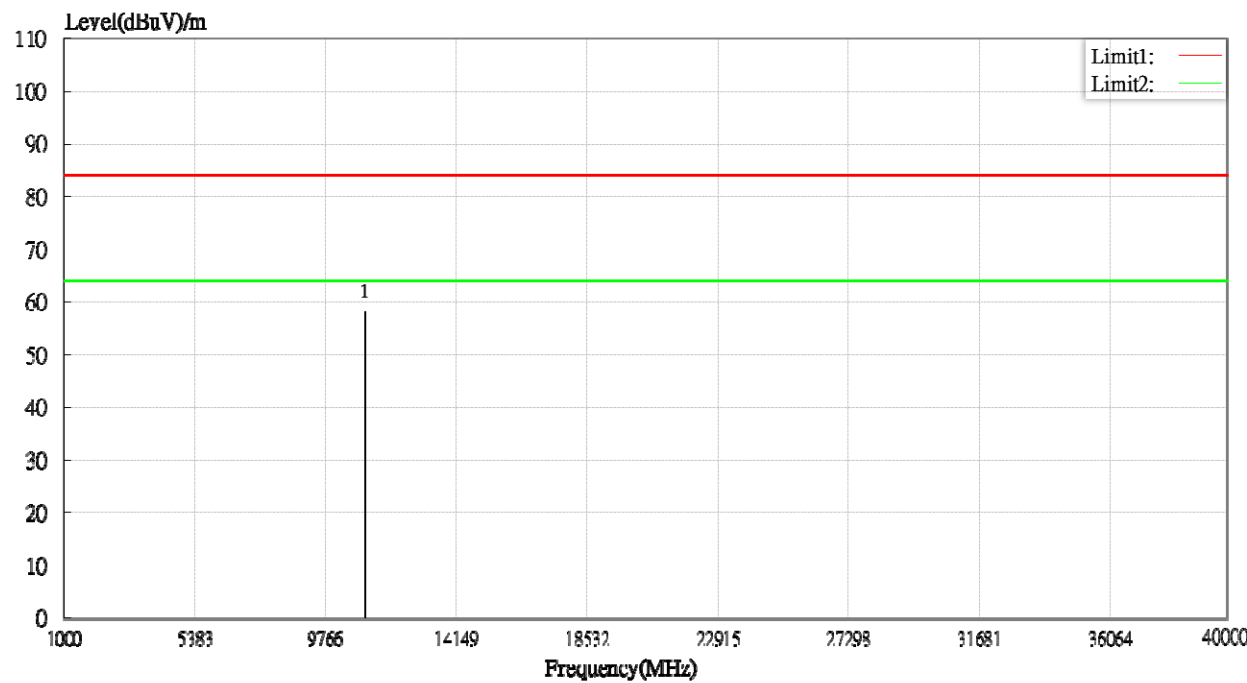


VHT80 mode 5530 MHz Horizontal XOR

PK

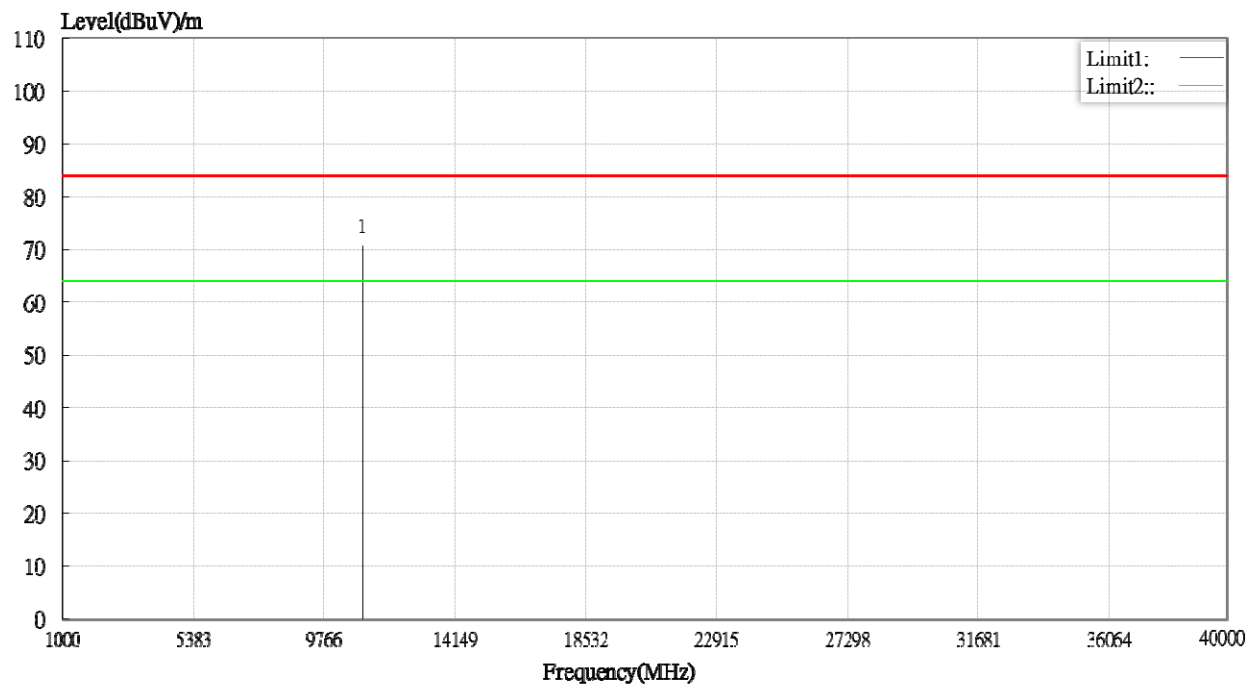


AVG

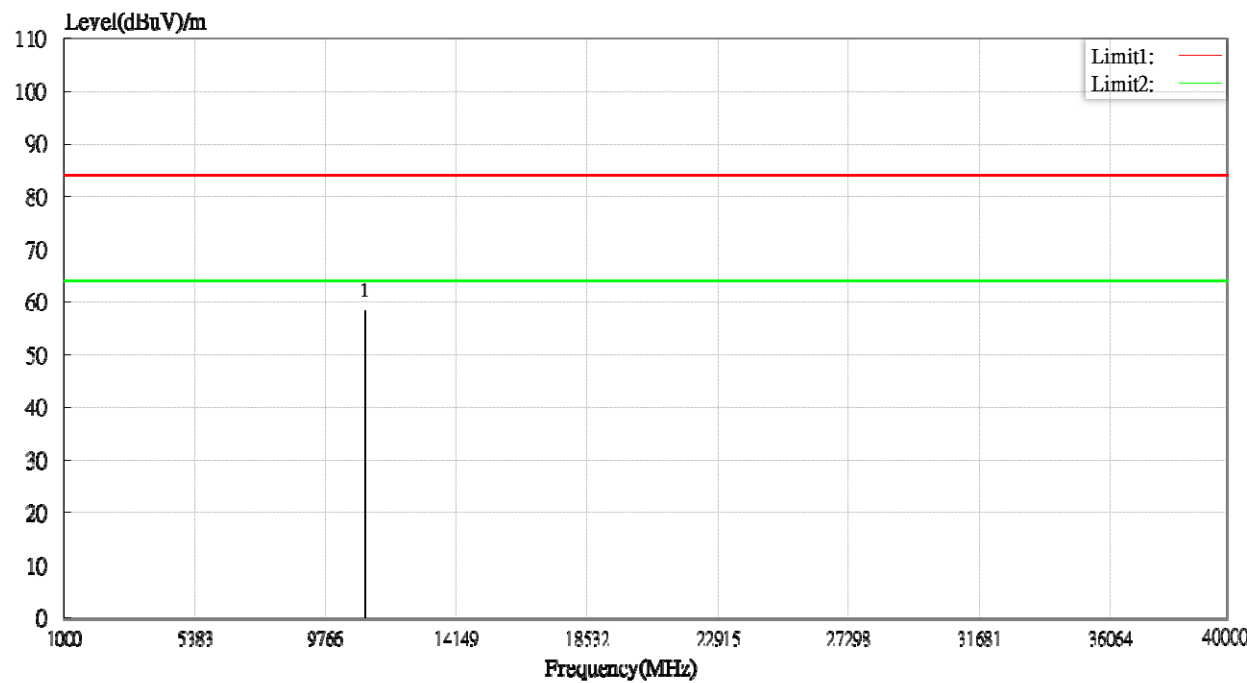


VHT80 mode 5530 MHz Vertical XOR

PK

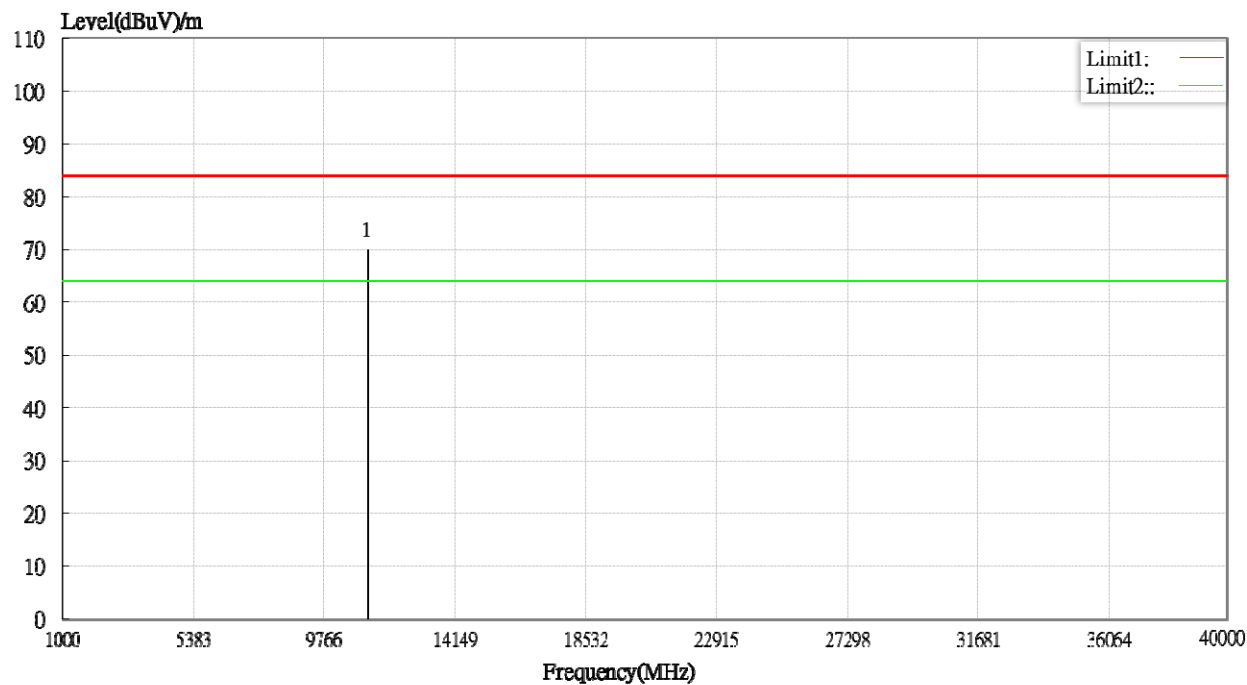


AVG

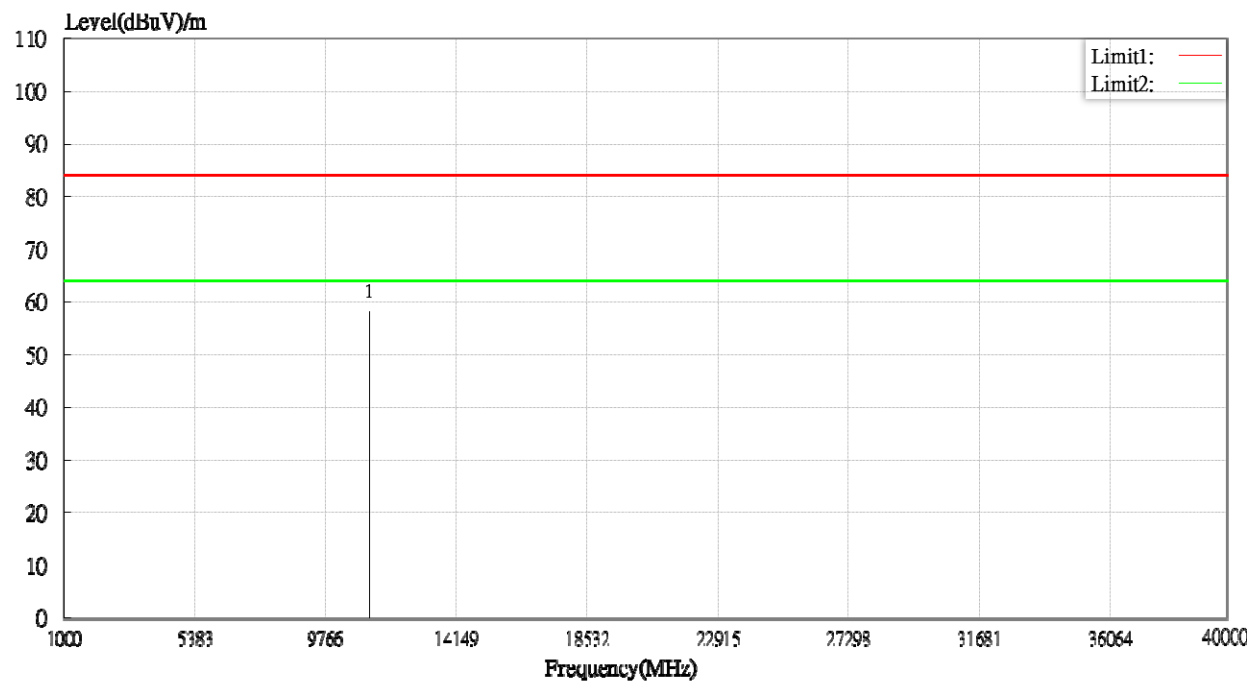


VHT80 mode 5610 MHz Horizontal XOR

PK

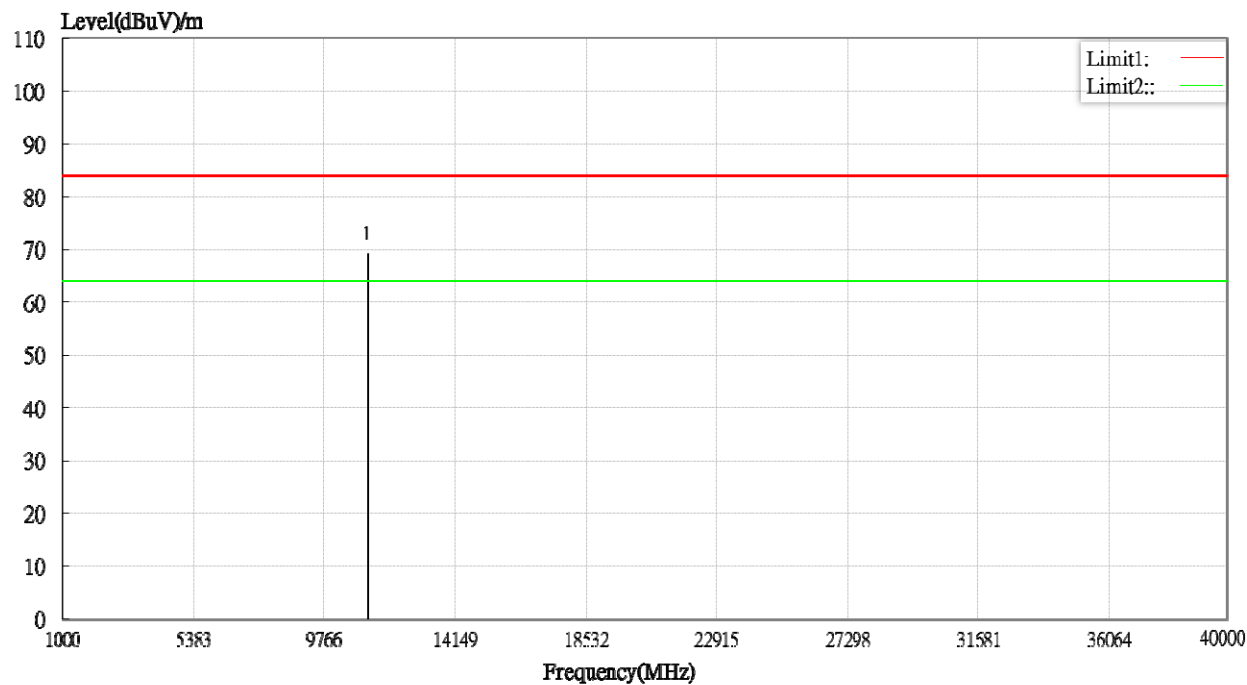


AVG

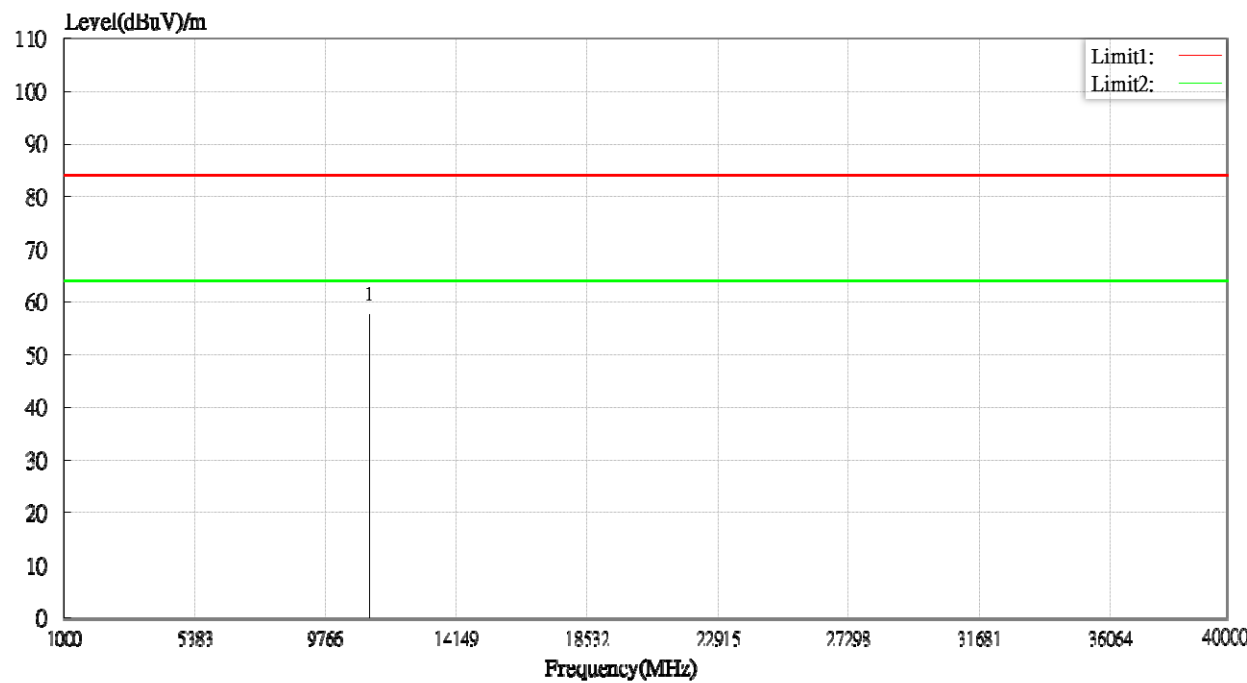


VHT80 mode 5610 MHz Vertical XOR

PK

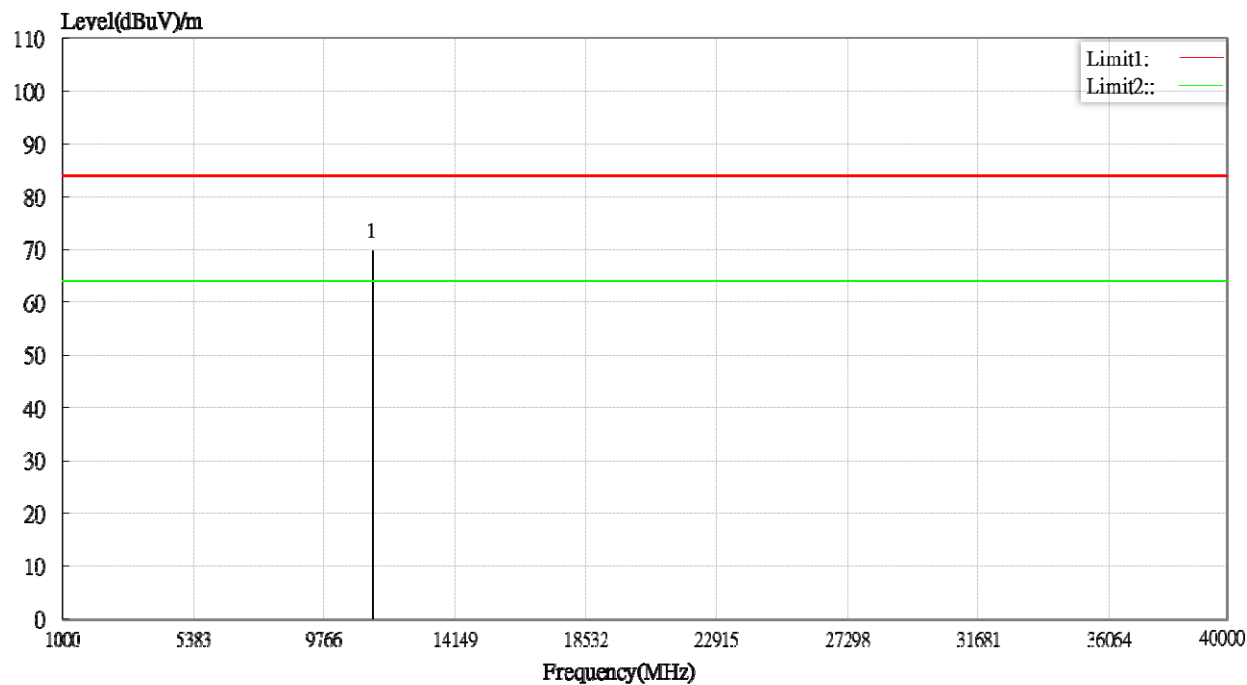


AVG

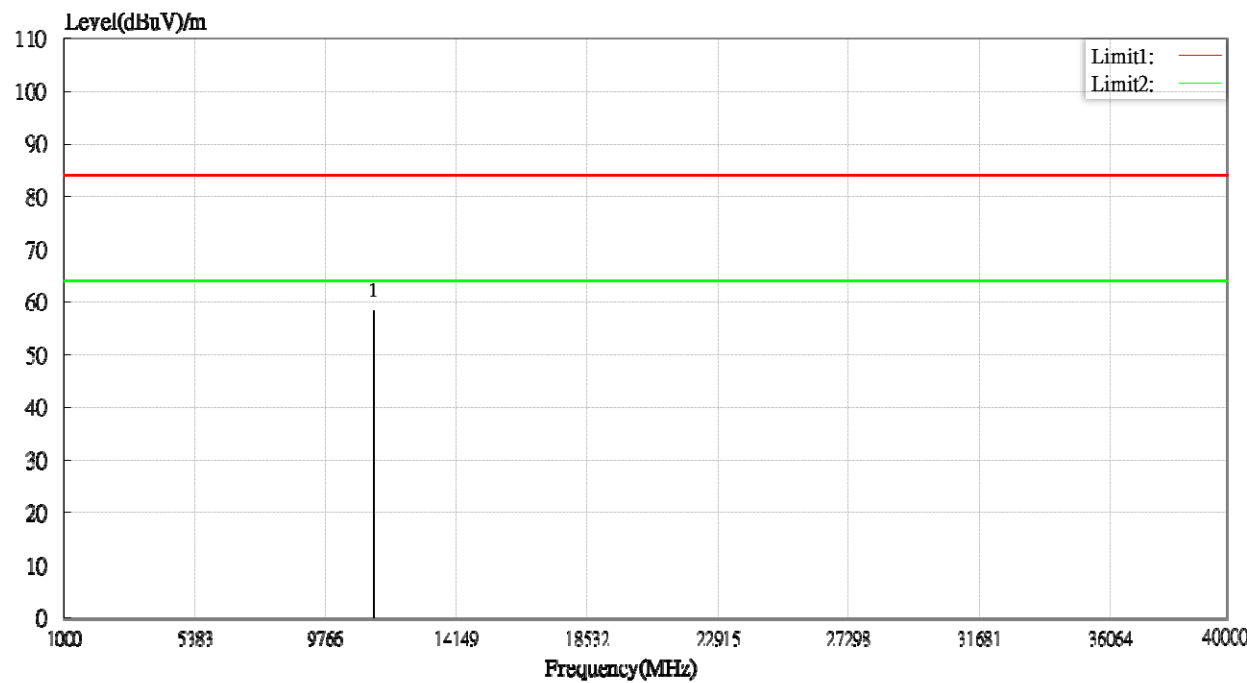


VHT80 mode 5690 MHz Horizontal XOR

PK

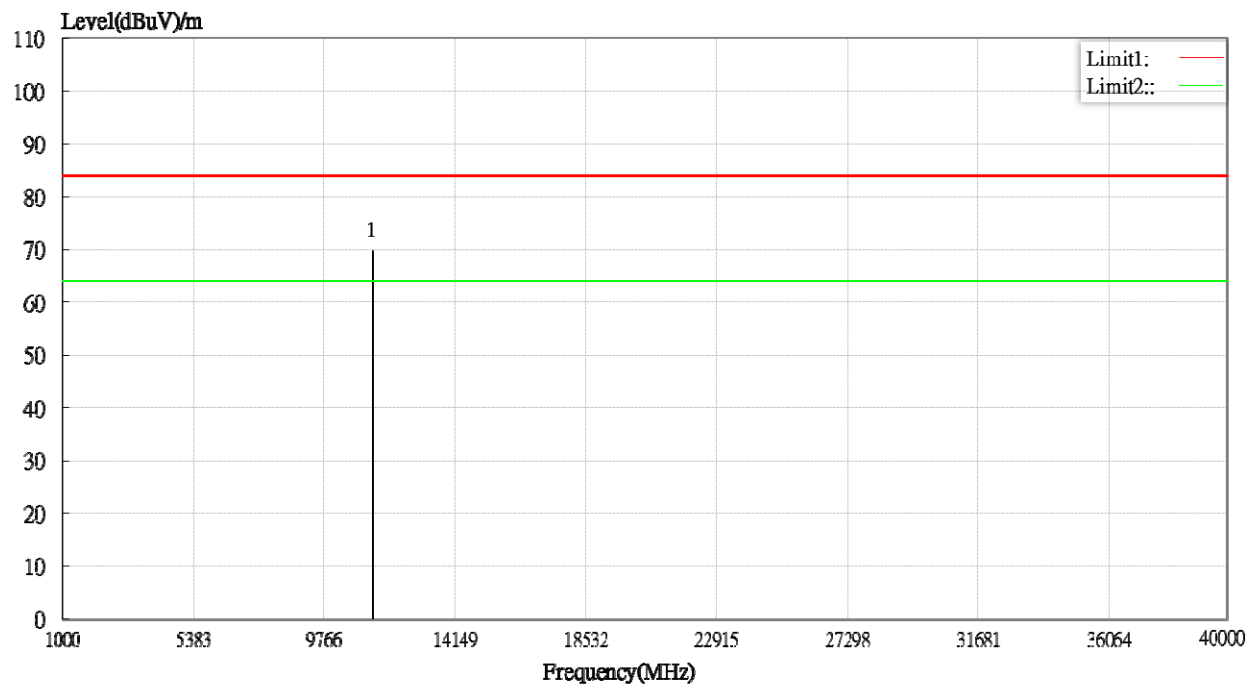


AVG

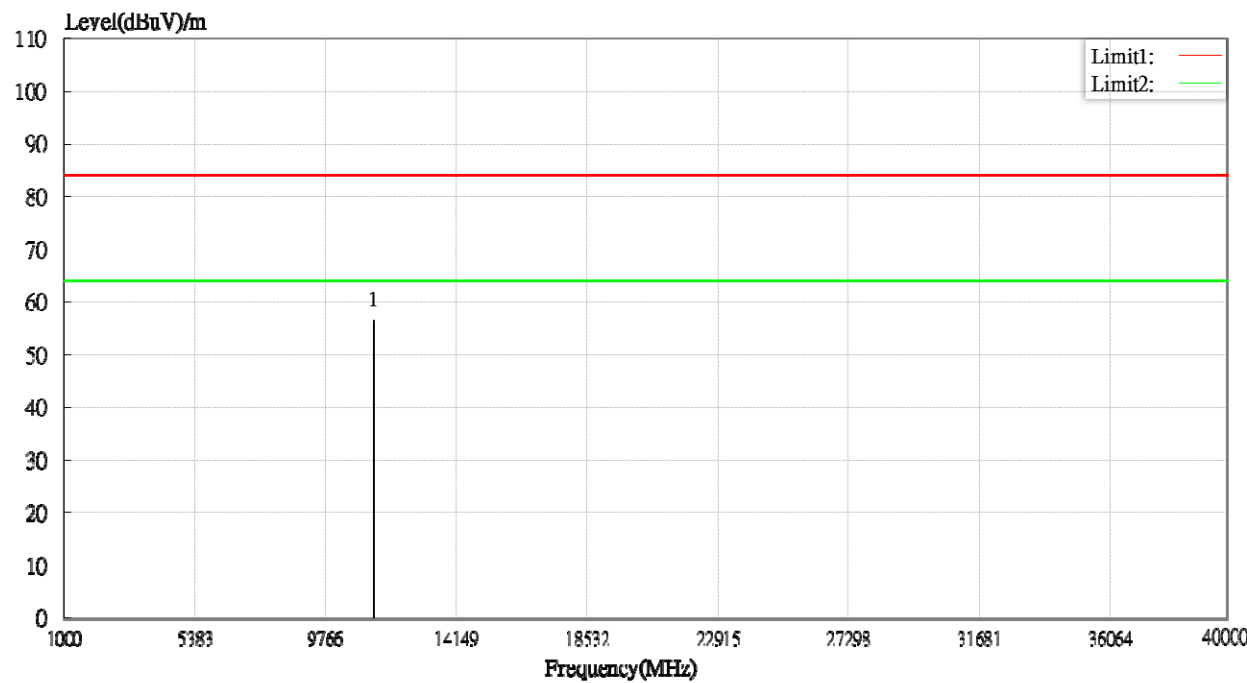


VHT80 mode 5690 MHz Vertical XOR

PK

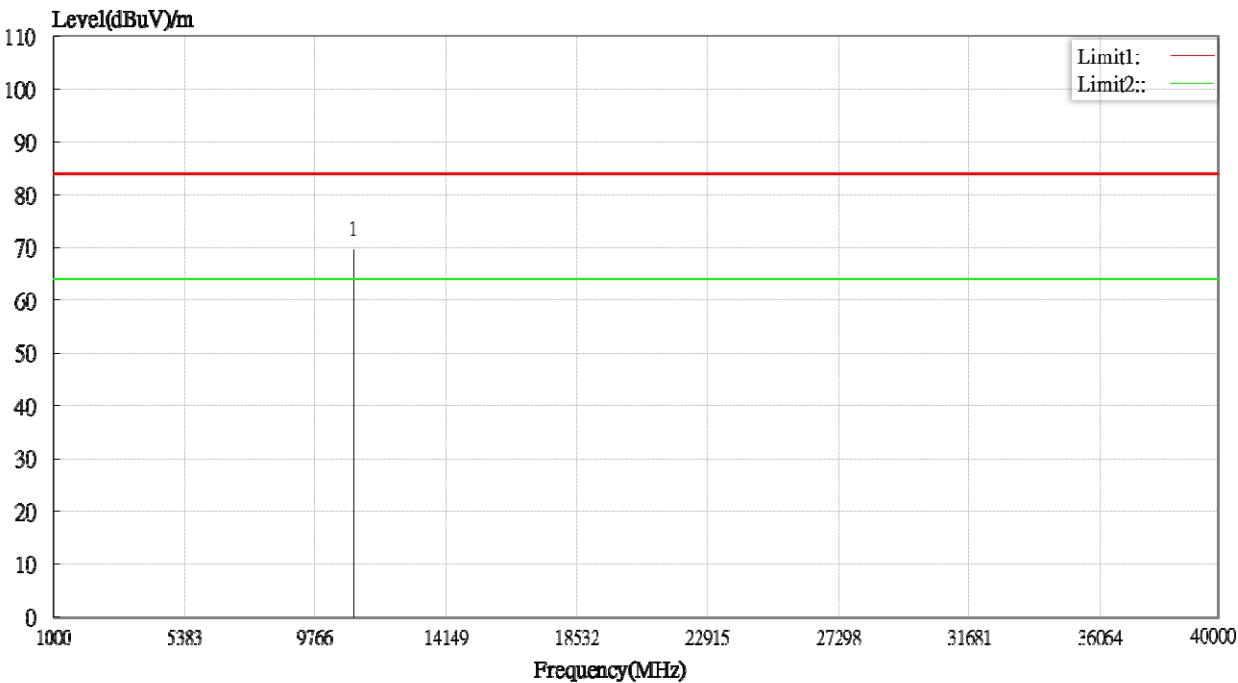


AVG



HE80 mode 5530 MHz Horizontal XOR

PK



AVG

