

FCC Test Report

Report No.:AGC00454180501FE04

FCC ID : X8F-SX500
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : SkyCaddie SX500
BRAND NAME : SkyCaddie
MODEL NAME : SX500
CLIENT : SkyHawke Technologies, LLC
DATE OF ISSUE : Aug. 30, 2018
STANDARD(S) : FCC Part 15.247
TEST PROCEDURE(S) : KDB 558074 D01 DTS Meas Guidance v04
REPORT VERSION : V1.2

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-----------------|---------------|---------------|-------------------|
| V1.0 | / | Jul. 27, 2018 | Invalid | Initial Release |
| V1.1 | 1 st | Aug. 28, 2018 | Invalid | Revise Page 46 |
| V1.2 | 2 nd | Aug. 30, 2018 | Valid | Revise Page 35~39 |

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1. VERIFICATION OF CONFORMITY

| | |
|---------------------------------|--|
| Applicant | SkyHawke Technologies, LLC |
| Address | 274 Commerce Park Drive, Ridgeland, MS 39157 USA |
| Manufacturer | SkyHawke Technologies, LLC |
| Address | 274 Commerce Park Drive, Ridgeland, MS 39157 USA |
| Product Designation | SkyCaddie SX500 |
| Brand Name | SkyCaddie |
| Test Model | SX500 |
| Date of test | Jul. 11, 2018 to Jul. 20, 2018 |
| Deviation | None |
| Condition of Test Sample | Normal |
| Report Template | AGCRT-US-BGN/RF |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

The test results of this report relate only to the tested sample identified in this report.

Tested By

Nice.xie

Xie Xiaosong(Xie Xiaosong)

Jul. 20, 2018

Reviewed By

Bart Xie

Bart Xie(Xie Xiaobin)

Aug.30, 2018

Approved By

Forrest Lei

Forrest Lei(Lei Yonggang)
 Authorized Officer

Aug.30, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “SkyCaddie SX500”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

| | |
|----------------------------|--|
| Operation Frequency | 2.412 GHz~2.462GHz |
| Output Power | IEEE 802.11b: 14.65 dBm, IEEE 802.11g: 12.59 dBm; IEEE 802.11n(20): 12.20 dBm,IEEE 802.11n(40): 11.67 dBm |
| Modulation | DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM) |
| Number of channels | 11 Channels (IEEE802.11b/g/n(20))& 7 Channels (IEEE802.11n(40)) |
| Hardware Version | E523-MB-P3.0 |
| Software Version | SX500_V1_00_14 |
| Antenna Designation | PIFA Antenna |
| Antenna Gain | 1.0dBi |
| Power Supply | DC3.8V by Built-in Li-ion Battery |

2.2. TABLE OF CARRIER FREQUENCIES

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHZ | 1 | 2412 MHZ |
| | 2 | 2417 MHZ |
| | 3 | 2422 MHZ |
| | 4 | 2427 MHZ |
| | 5 | 2432 MHZ |
| | 6 | 2437 MHZ |
| | 7 | 2442 MHZ |
| | 8 | 2447 MHZ |
| | 9 | 2452 MHZ |
| | 10 | 2457 MHZ |
| | 11 | 2462 MHZ |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11
 For 40MHZ bandwidth system use Channel 3 to Channel 9.

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2.3. IEEE 802.11N MODULATION SCHEME

| MCS Index | Nss | Modulation | R | NBPS | NCBPS | | NDBPS | | Data rate(Mbps) | | | |
|-----------|-----|------------|-----|------|---------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 800nsGI | | 20MHz | 40MHz | 20MHz | 40MHz | 20MHz | 40MHz |
| | | | | | 20MHz | 40MHz | | | | | | |
| 0 | 1 | BPSK | 1/2 | 1 | 52 | 108 | 26 | 54 | 6.5 | 13.5 | | |
| 1 | 1 | QPSK | 1/2 | 2 | 104 | 216 | 52 | 108 | 13.0 | 27.0 | | |
| 2 | 1 | QPSK | 3/4 | 2 | 104 | 216 | 78 | 162 | 19.5 | 40.5 | | |
| 3 | 1 | 16-QAM | 1/2 | 4 | 208 | 432 | 104 | 216 | 26.0 | 54.0 | | |
| 4 | 1 | 16-QAM | 3/4 | 4 | 208 | 432 | 156 | 324 | 39.0 | 81.0 | | |
| 5 | 1 | 64-QAM | 2/3 | 6 | 312 | 648 | 208 | 432 | 52.0 | 108.0 | | |
| 6 | 1 | 64-QAM | 3/4 | 6 | 312 | 648 | 234 | 489 | 58.5 | 121.5 | | |
| 7 | 1 | 64-QAM | 5/6 | 6 | 312 | 648 | 260 | 540 | 65.0 | 135.0 | | |

| Symbol | Explanation |
|--------|---|
| NSS | Number of spatial streams |
| R | Code rate |
| NBPS | Number of coded bits per single carrier |
| NCBPS | Number of coded bits per symbol |
| NDBPS | Number of data bits per symbol |
| GI | Guard interval |

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: X8F-SX500** filing to comply with the FCC Part 15 requirements.

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2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules KDB 558074 D01 DTS Meas Guidance v04.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

- Uncertainty of Conducted Emission, $U_c = \pm 3.2\text{dB}$
- Uncertainty of Radiated Emission below 1GHz, $U_c \pm 3.9\text{dB}$
- Uncertainty of Radiated Emission above 1GHz, $U_c \pm 4.8\text{dB}$

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4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1 | Low channel TX |
| 2 | Middle channel TX |
| 3 | High channel TX |
| 4 | Normal operating |

Note:
 Transmit by 802.11b with Data rate (1/2/5.5/11)
 Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)
 Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)
 Transmit by 802.11n (40MHz) with Data rate (13.5/27/40.5/54/81/108/121.5/135)

Note:

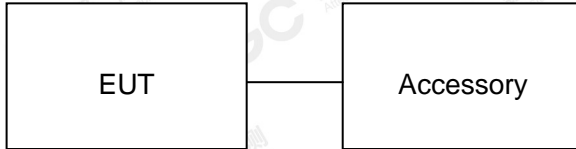
1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|-----------------|----------------|---------------------|-----------|
| 1 | SkyCaddie SX500 | SX500 | X8F-SX500 | EUT |
| 2 | Adapter | TPA-46050200UU | DC 5.0V 2000mA | Accessory |
| 3 | Battery | 776065PV | DC3.8V/ 4700mAh | Accessory |
| 4 | USB Cable | N/A | N/A | Accessory |

Note: All the accessories have been used during the test in conduction emission test.

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|---|-----------|
| §15.247 | Output Power | Compliant |
| §15.247 | 6 dB Bandwidth | Compliant |
| §15.247 | Conducted Spurious Emission | Compliant |
| §15.247 | Maximum Conducted Output Power SPECTRAL Density | Compliant |
| §15.209 | Radiated Emission | Compliant |
| §15.247 | Band Edges | Compliant |
| §15.207 | Line Conduction Emission | Compliant |

Note: The EUT received power from DC3.8V lithium battery.

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6. TEST FACILITY

| | |
|---------------------------|--|
| Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012 |
| NVLAP LAB CODE | 600153-0 |
| Designation Number | CN5028 |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0 |

ALL TEST EQUIPMENT LIST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|------------------------------|--------------|-------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESPI | 101206 | Jun.12, 2018 | Jun.11, 2019 |
| LISN | R&S | ESH2-Z5 | 100086 | Aug.21, 2017 | Aug.20, 2018 |
| TEST RECEIVER | R&S | ESCI | 10096 | Jun.12, 2018 | Jun.11, 2019 |
| EXA Signal Analyzer | Agilent | N9010A | MY53470504 | Dec.08, 2017 | Dec.07, 2018 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep.20, 2017 | Sep.19, 2018 |
| preamplifier | ChengYi | EMC184045SE | 980508 | Sep.15, 2017 | Sep.14, 2018 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May.18, 2017 | May.17, 2019 |
| Broadband Preamplifier | SCHWARZBECK | BBV 9718 | 9718-205 | Jun.12, 2018 | Jun.11, 2019 |
| ANTENNA | SCHWARZBECK | VULB9168 | D69250 | Sep.28, 2017 | Sep.27, 2018 |
| SIGNAL ANALYZER | Agilent | N9020A | MY52090123 | Sep. 21, 2017 | Sep. 20, 2018 |
| USB Wideband Power Sensor | Agilent | U2021XA | MY54110007 | Sep. 21, 2017 | Sep. 20, 2018 |
| LOOP ANTENNA | A.H | SAS-562B | / | Mar.01, 2018 | Feb.28, 2019 |

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7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

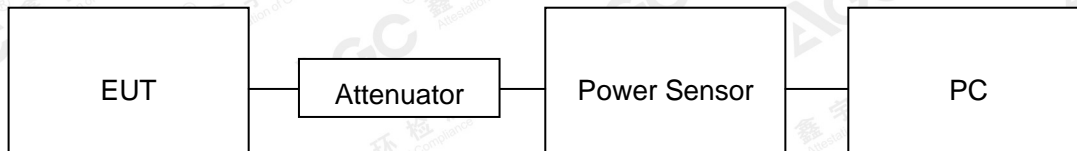
For max average conducted output power test:

1. Connect EUT RF output port to power probe through an RF attenuator.
2. Connect the power probe to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note : The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

AVERAGE POWER SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

| | |
|------------------|--------------------------|
| TEST ITEM | OUTPUT POWER |
| TEST MODE | 802.11b with data rate 1 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412 | 10.60 | 30 | Pass |
| 2.437 | 14.65 | 30 | Pass |
| 2.462 | 14.14 | 30 | Pass |

| | |
|------------------|--------------------------|
| TEST ITEM | OUTPUT POWER |
| TEST MODE | 802.11g with data rate 6 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412 | 6.26 | 30 | Pass |
| 2.437 | 12.59 | 30 | Pass |
| 2.462 | 11.93 | 30 | Pass |

| | |
|------------------|-------------------------------|
| TEST ITEM | OUTPUT POWER |
| TEST MODE | 802.11n 20 with data rate 6.5 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412 | 6.17 | 30 | Pass |
| 2.437 | 12.20 | 30 | Pass |
| 2.462 | 11.92 | 30 | Pass |

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| | |
|------------------|--------------------------------|
| TEST ITEM | OUTPUT POWER |
| TEST MODE | 802.11n 40 with data rate 13.5 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.422 | 10.13 | 30 | Pass |
| 2.437 | 11.33 | 30 | Pass |
| 2.452 | 11.67 | 30 | Pass |

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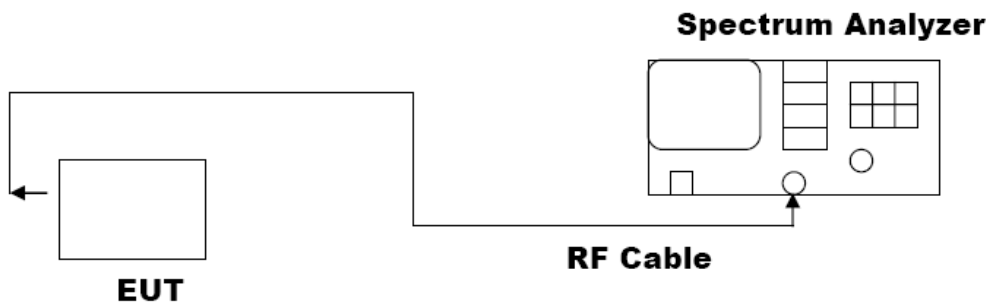
8. 6dB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \geq 3 \times RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



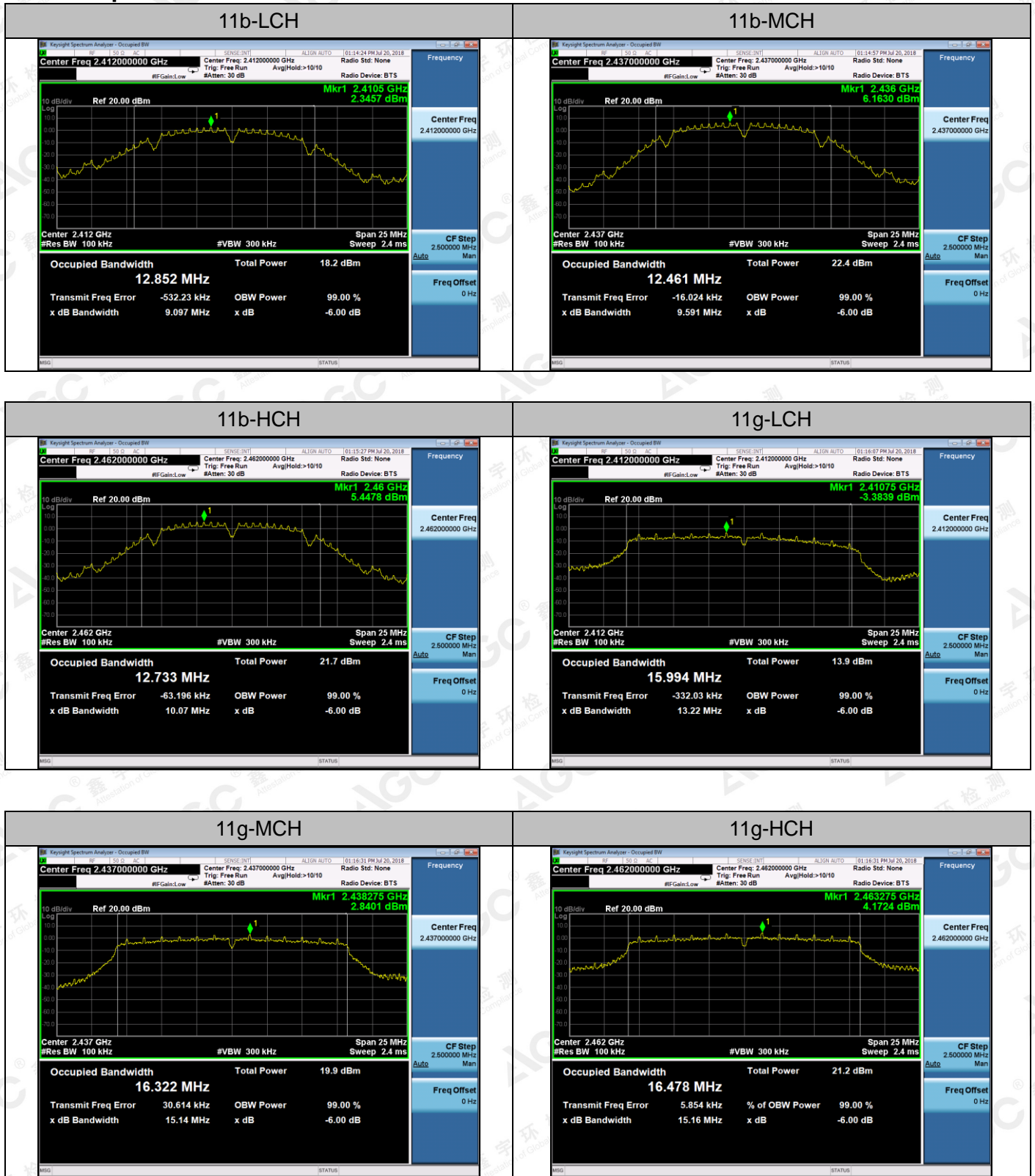
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8.3. LIMITS AND MEASUREMENT RESULTS

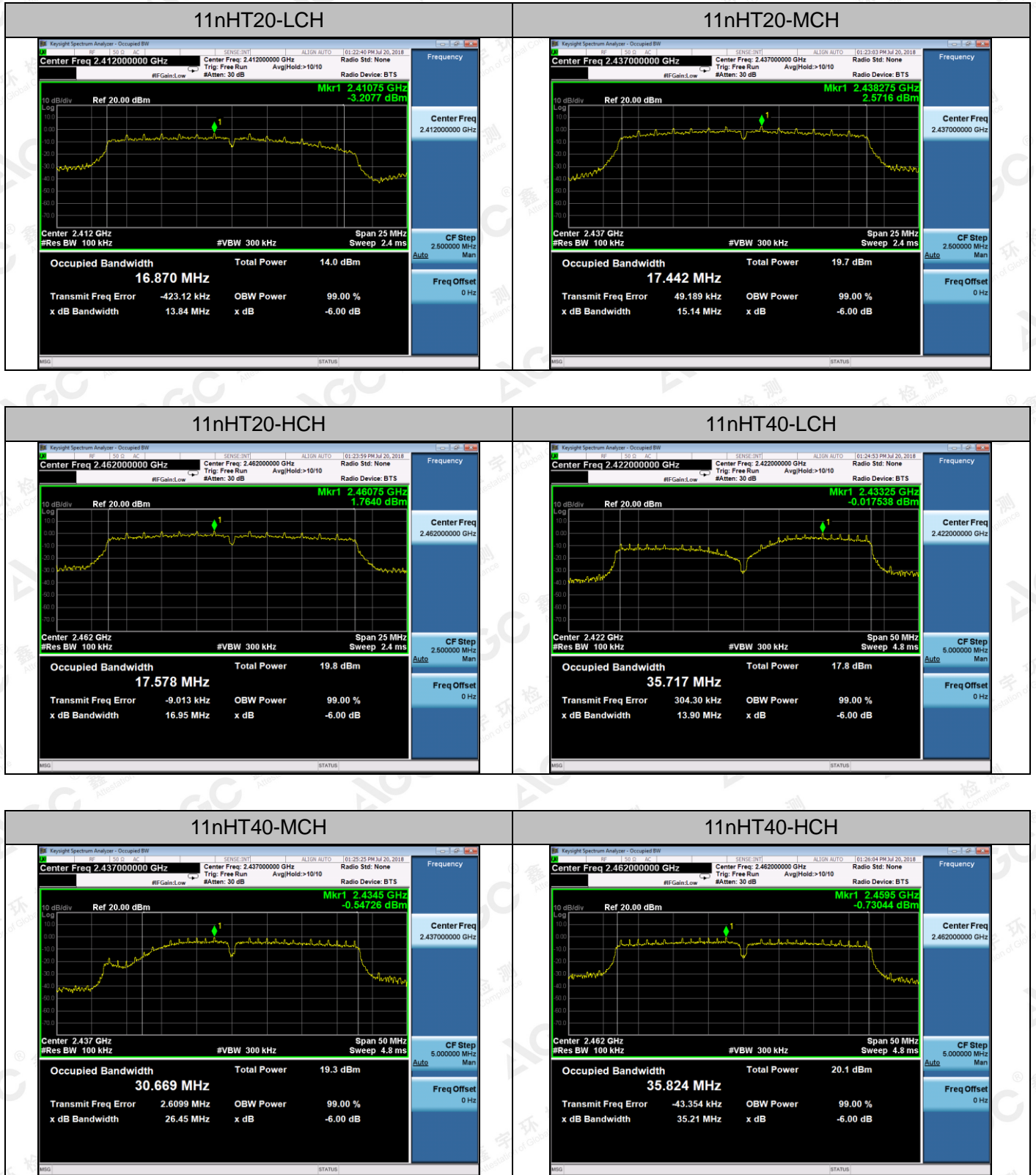
| Mode | Channel | 6dB Bandwidth [MHz] | Verdict |
|---------|---------|---------------------|---------|
| 11b | LCH | 9.097 | PASS |
| | MCH | 9.591 | PASS |
| | HCH | 10.07 | PASS |
| 11g | LCH | 13.22 | PASS |
| | MCH | 15.14 | PASS |
| | HCH | 15.16 | PASS |
| 11nHT20 | LCH | 13.84 | PASS |
| | MCH | 15.14 | PASS |
| | HCH | 16.95 | PASS |
| 11nHT40 | LCH | 13.90 | PASS |
| | MCH | 26.45 | PASS |
| | HCH | 35.21 | PASS |

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Test Graph



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

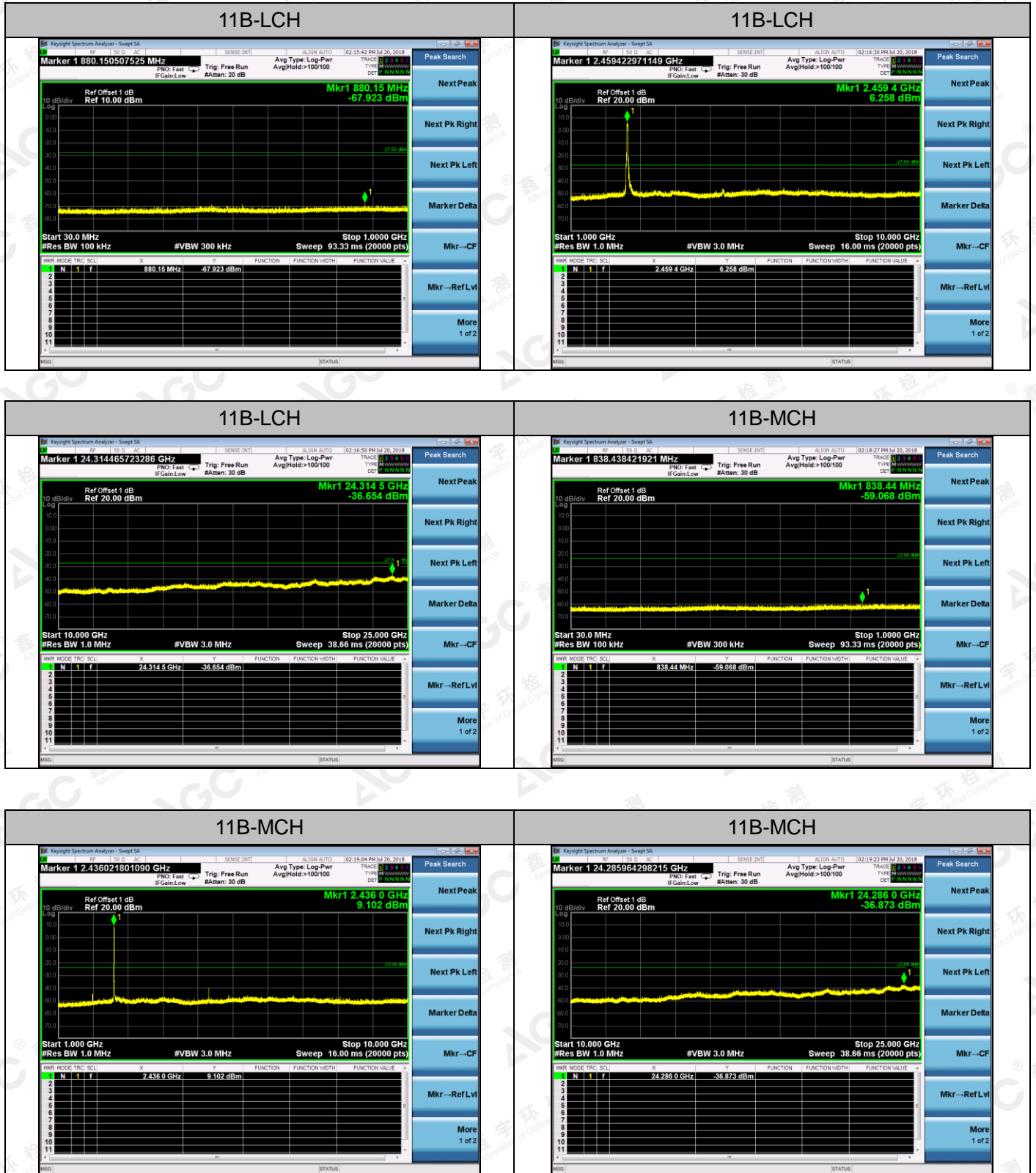
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

9.4. LIMITS AND MEASUREMENT RESULT

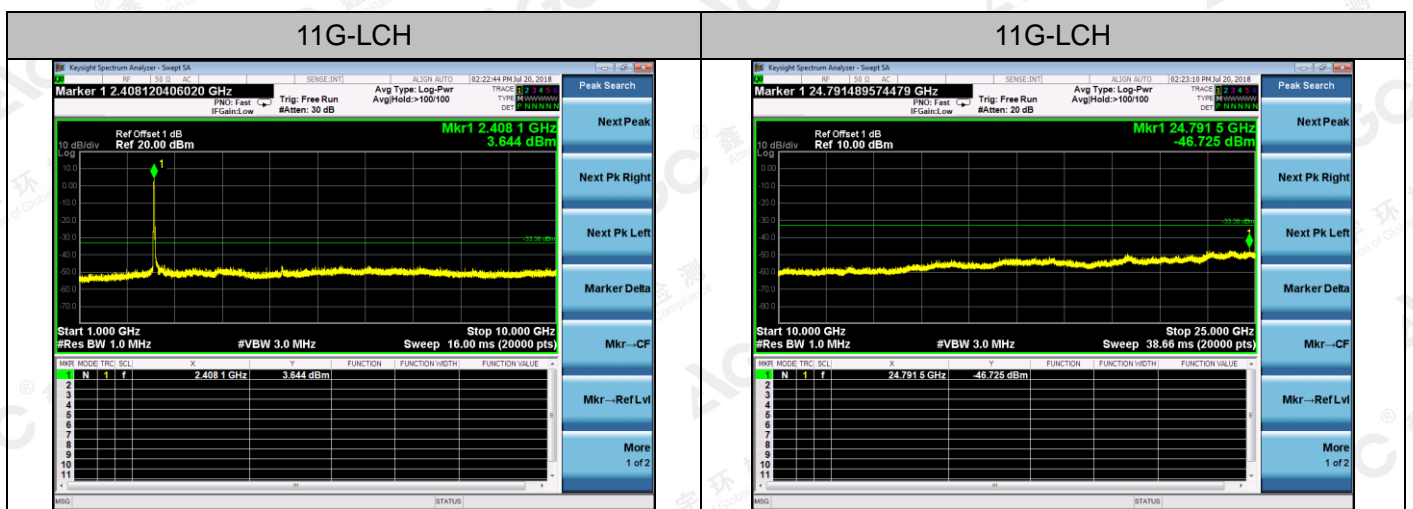
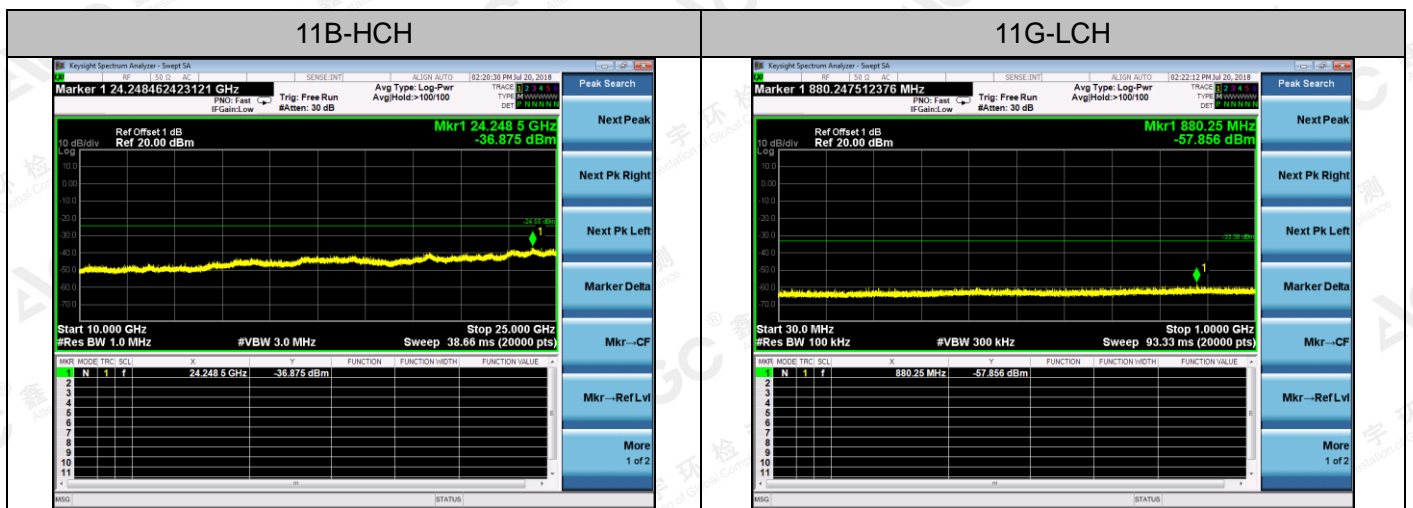
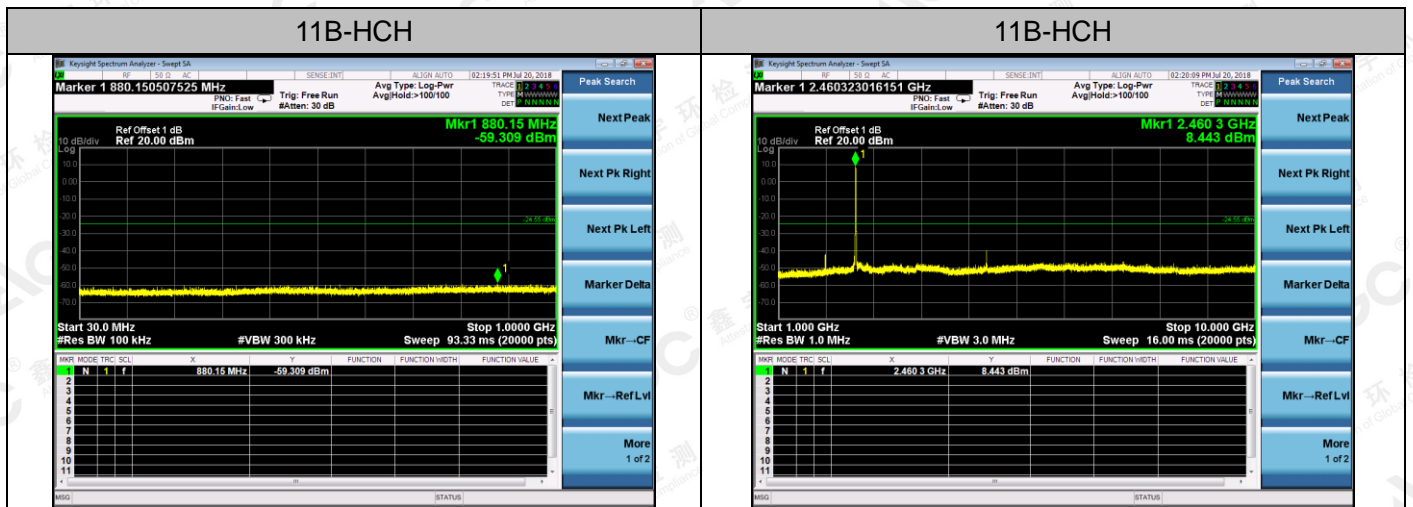
| LIMITS AND MEASUREMENT RESULT | | |
|--|--|----------|
| Applicable Limits | Measurement Result | |
| | Test Data | Criteria |
| In any 100 KHZ Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a) | At least -20dBc than the limit Specified on the BOTTOM Channel | PASS |
| | At least -20dBc than the limit Specified on the TOP Channel | PASS |

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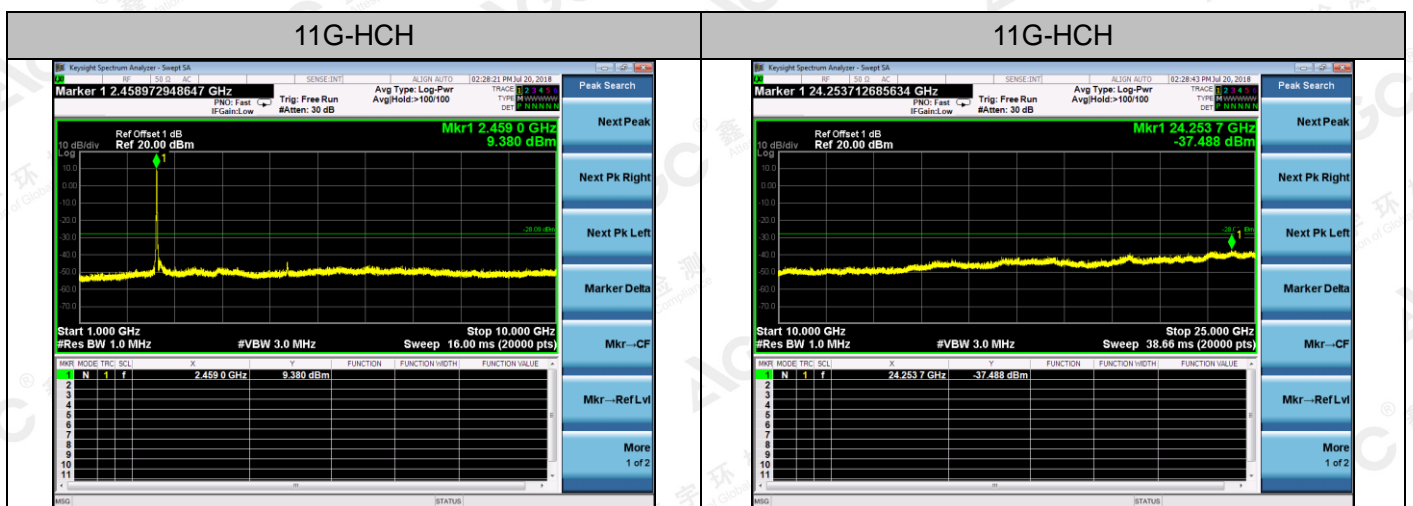
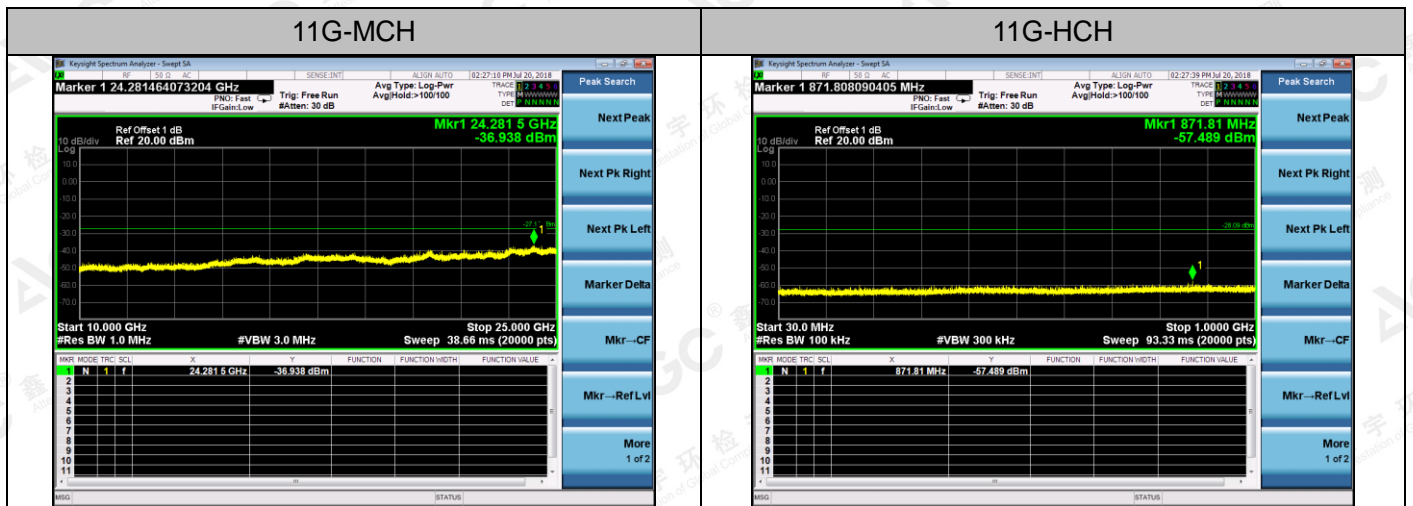
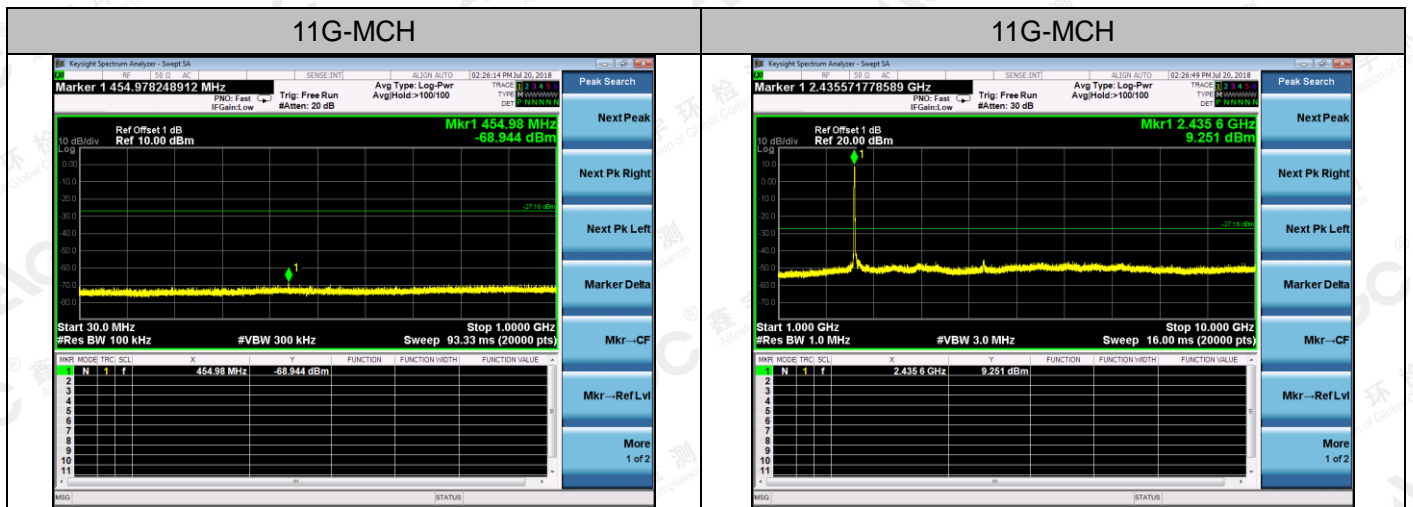
Test Graph



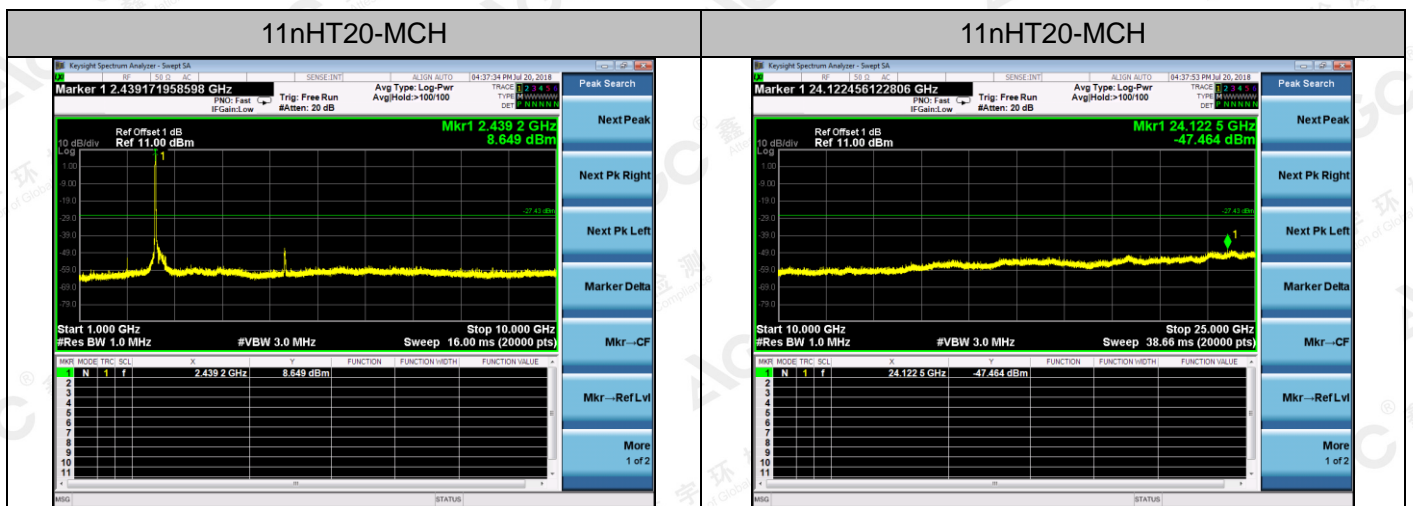
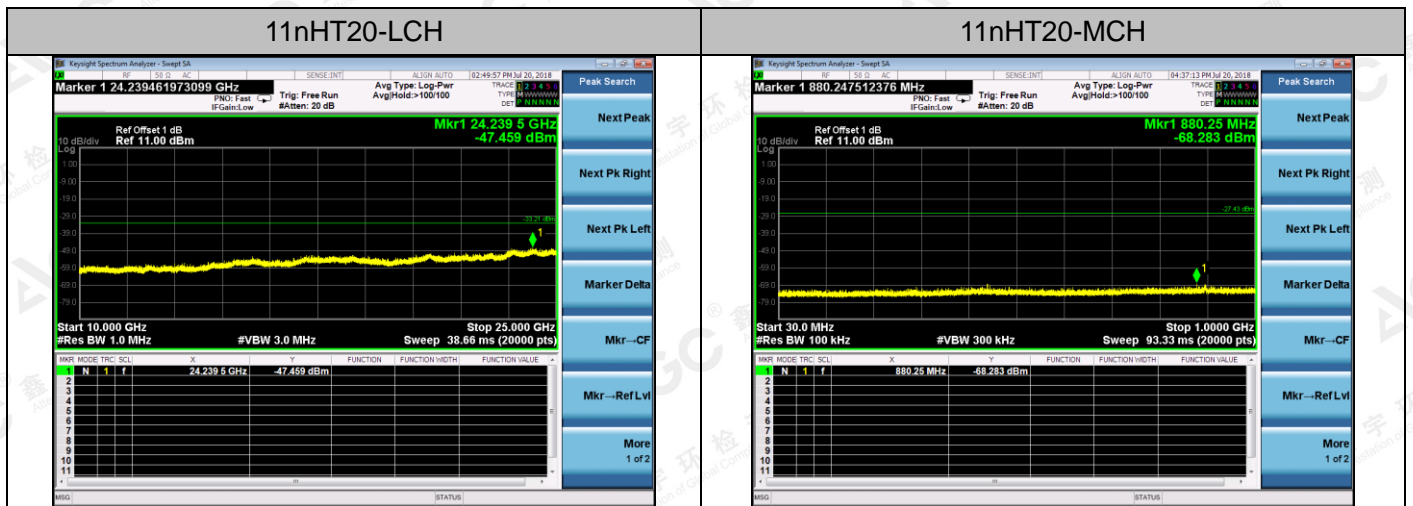
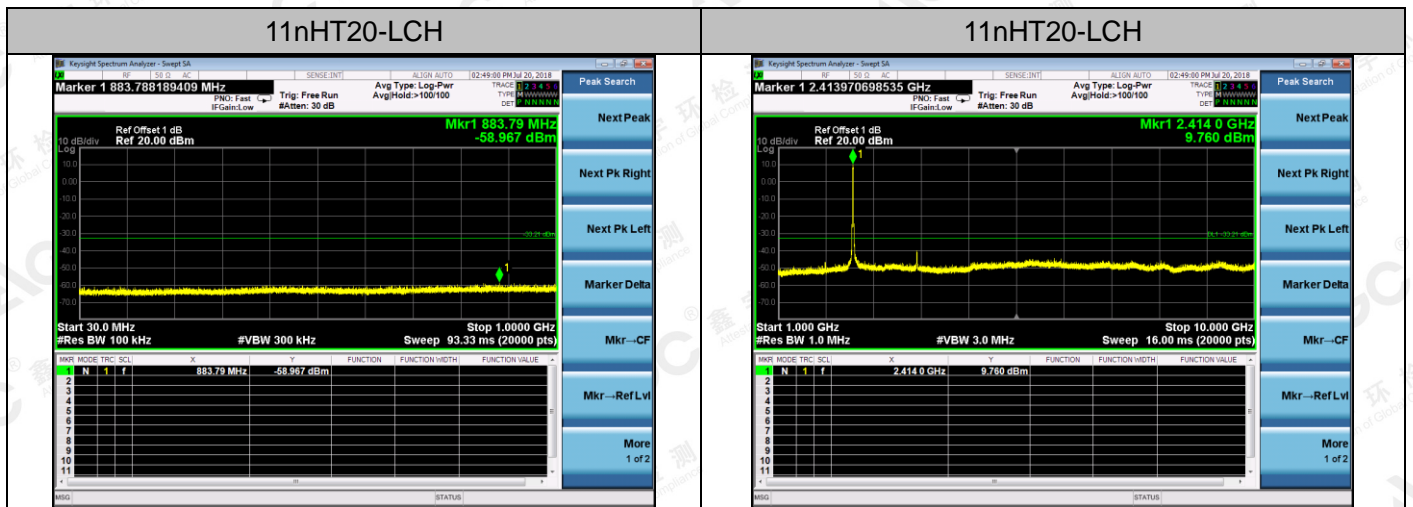
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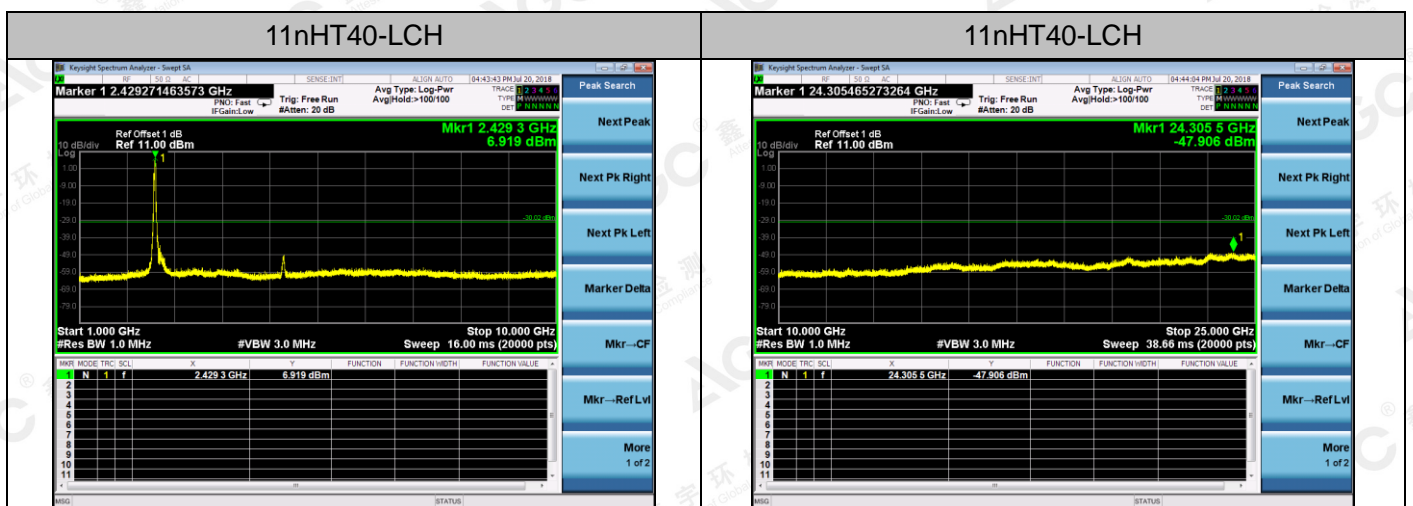
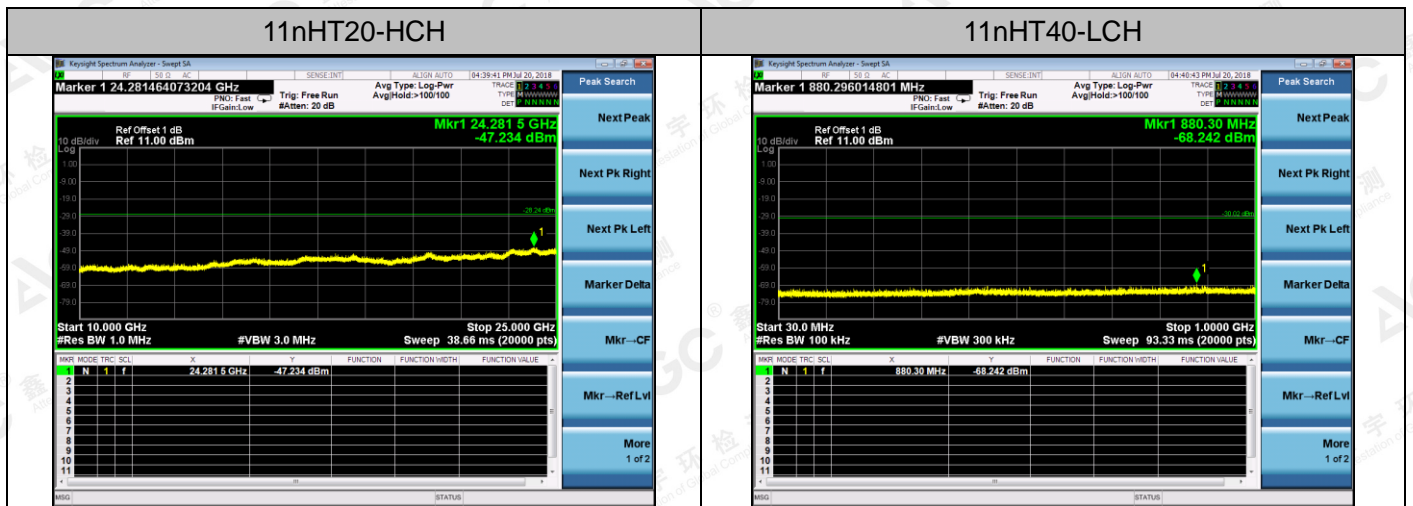
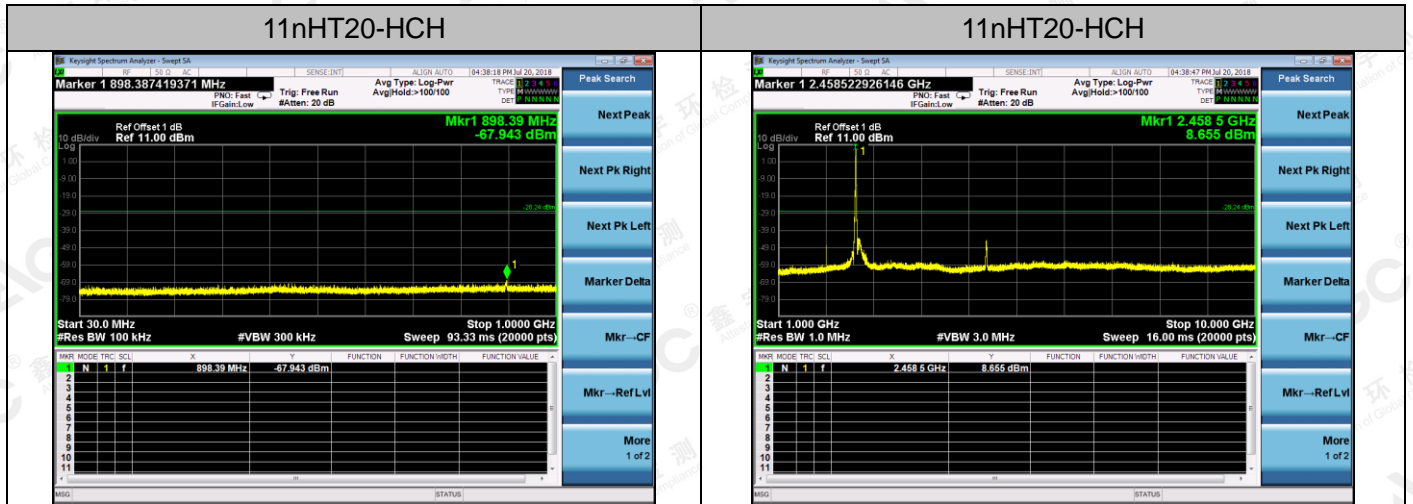
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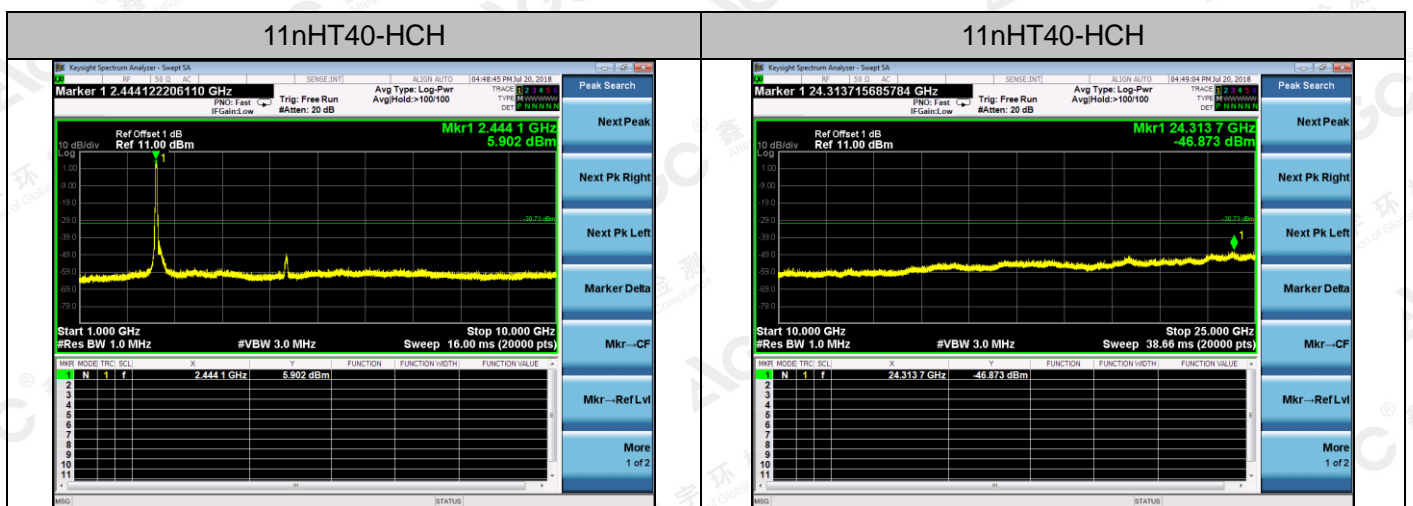
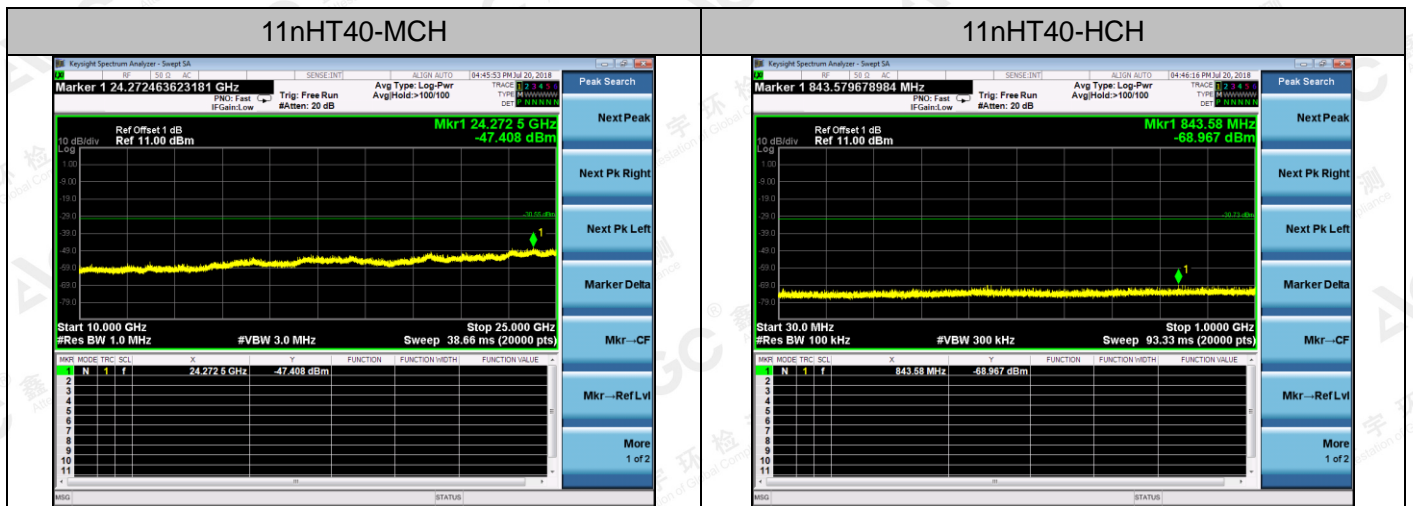
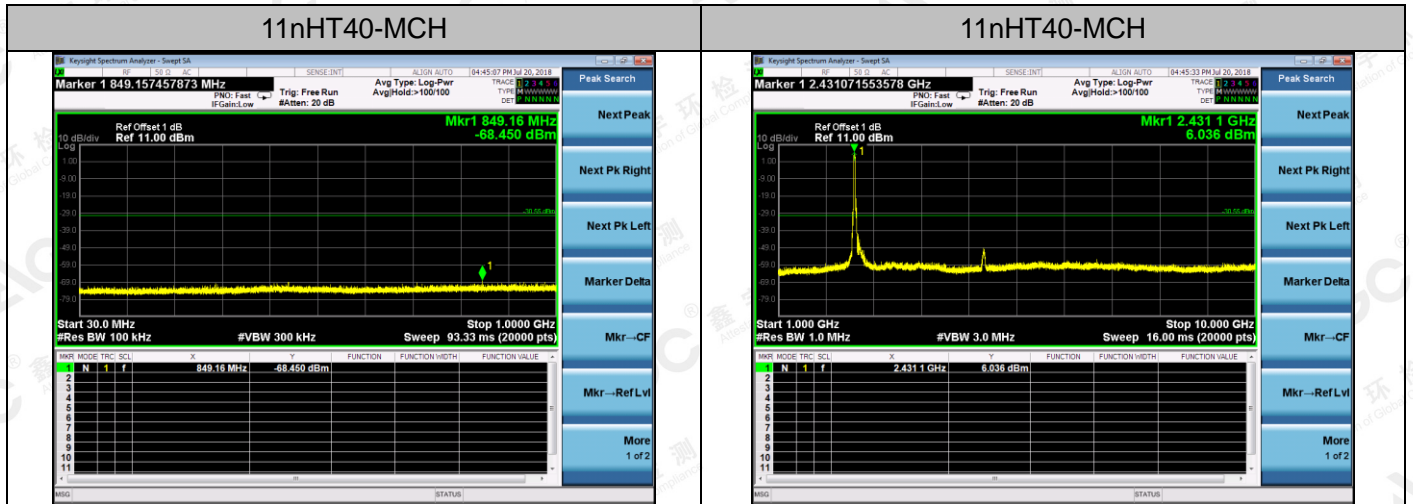
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