

FCC Test Report

Report No.: AGC00635180506FE05

FCC ID : 2AFZB-ZURCBKUALZ

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Backup Camera

BRAND NAME : ZUS

MODEL NAME : ZURCBKUAL

CLIENT : No NDA Inc.

DATE OF ISSUE : Aug. 30, 2018

STANDARD(S)
TEST PROCEDURE(S) : FCC Part 15.247

REPORT VERSION : V1.0

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 | / | Aug. 30, 2018 | Valid | Initial Release |

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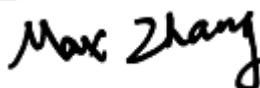
1. VERIFICATION OF CONFORMITY

| | |
|---------------------------------|--|
| Applicant | No NDA Inc. |
| Address | 320 Mountain View Ave., Mountain View, CA 94041 |
| Manufacturer | WBE Industrail |
| Address | Gaotian Area, Zhenlong Town, Huiyang, Huizhou City, Guangdong 516200 PRC |
| Product Designation | Backup Camera |
| Brand Name | ZUS |
| Test Model | ZURCBKUAL |
| Date of test | June. 26, 2018 to July. 12, 2018 |
| Deviation | None |
| Condition of Test Sample | Normal |
| Test Result | Pass |
| 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 radiated emission limits of FCC Rules Part 15.247.

Tested By



Max Zhang(Zhang Yi)

Aug. 30, 2018

Reviewed By



Bart Xie(Xie Xiaobin)

Aug. 30, 2018

Approved By



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 "Backup Camera". 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:12.51dBm; IEEE 802.11g:11.72dBm; IEEE 802.11n(20):11.42dBm; IEEE 802.11n(40):10.38dBm |
| Modulation | DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM) |
| Number of channels | 11 for 20MHZ bandwidth system 7 for 40MHZ bandwidth system |
| Hardware Version | V1.0 |
| Software Version | V1.0 |
| Antenna Designation | Internal antenna |
| Number of transmit chain | 1 |
| Antenna Gain | 2dBi |
| Power Supply | DC 3.7V battery or DC 5V by Car charger |

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 | NBPSC | NCBPS | | NDBPS | | Data rate(Mbps) | |
|-----------|-----|------------|-----|-------|-------|-------|-------|-------|-----------------|-------|
| | | | | | | | | | 800nsGI | |
| | | | | | 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 |
| NBPSC | 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: 2AFZB-ZURCBKUALZ** filing to comply with the FCC Part 15 requirements.

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.

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

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- 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 Date rate (1/2/5.5/11)
 Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)
 Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)
 Transmit by 802.11n (40MHz) with Date 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.

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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|---------------|-----------|---------------------|--------|
| 1 | Backup Camera | ZURCBKUAL | 2AFZB-ZURCBKUALZ | EUT |

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 | N/A |

NOTE: N/A stands for not applicable. The device is only used in the car, so the conducted emission is not applicable.

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6. TEST FACILITY

| | |
|--|--|
| Test 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 |
| FCC Test Firm Registration Number | 682566 |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0 |

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------|--------------|-----------------|------------|--------------|--------------|
| TEST RECEIVER | R&S | ESCI | 10096 | Jun.12, 2018 | Jun.11, 2019 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec.08, 2017 | Dec.07, 2018 |
| Power sensor | Aglient | U2021XA | MY54110007 | Sep.21, 2017 | Sep.20, 2018 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep.20, 2017 | Sep.19, 2018 |
| preamplifier | ChengYi | EMC184045SE | 980508 | Sep.15, 2017 | Sep.14, 2018 |
| Active loop antenna (9K-30MHz) | A.H. | ZURCBKUALS-562B | N/A | Mar.01, 2018 | Feb.28, 2019 |
| 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 |

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7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

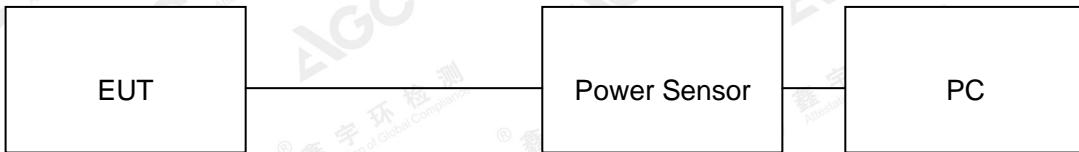
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor 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 ANSI C63.10 (2013) 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 | 12.41 | 30 | Pass |
| 2.437 | 12.33 | 30 | Pass |
| 2.462 | 12.51 | 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 | 11.42 | 30 | Pass |
| 2.437 | 11.72 | 30 | Pass |
| 2.462 | 11.68 | 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 | 11.42 | 30 | Pass |
| 2.437 | 11.32 | 30 | Pass |
| 2.462 | 11.27 | 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 | 10.25 | 30 | Pass |
| 2.437 | 10.16 | 30 | Pass |
| 2.452 | 10.38 | 30 | Pass |

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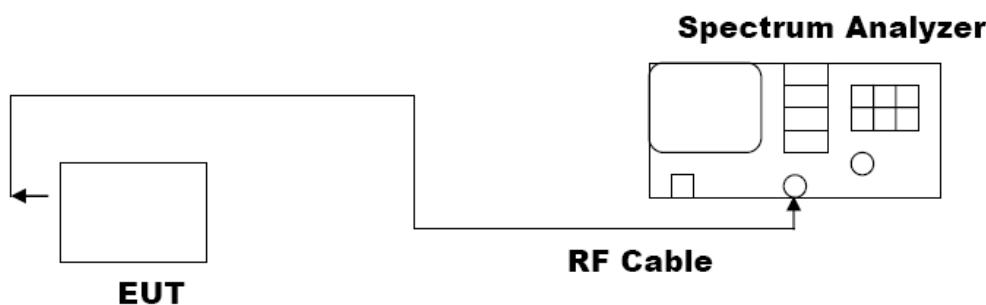
8. 6 DB BANDWIDTH

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 \geqslant 3 \times RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) 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

| | |
|-----------|---------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11b with data rate 11 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|-------|----------|
| Applicable Limits | Applicable Limits | | |
| | Test Data (MHz) | | Criteria |
| >500KHZ | Low Channel | 9.544 | PASS |
| | Middle Channel | 9.563 | PASS |
| | High Channel | 9.566 | PASS |

| | |
|-----------|---------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11g with data rate 54 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|-------|----------|
| Applicable Limits | Applicable Limits | | |
| | Test Data (MHz) | | Criteria |
| >500KHZ | Low Channel | 16.40 | PASS |
| | Middle Channel | 16.39 | PASS |
| | High Channel | 16.38 | PASS |

| | |
|-----------|------------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11n 20 with data rate 65 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|-------|----------|
| Applicable Limits | Applicable Limits | | |
| | Test Data (MHz) | | Criteria |
| >500KHZ | Low Channel | 17.72 | PASS |
| | Middle Channel | 17.71 | PASS |
| | High Channel | 17.71 | PASS |

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| | |
|------------------|-------------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11n 40 with data rate 135 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|-------|----------|
| Applicable Limits | Applicable Limits | | |
| | Test Data (MHz) | | Criteria |
| >500KHZ | Low Channel | 36.34 | PASS |
| | Middle Channel | 36.37 | PASS |
| | High Channel | 36.12 | PASS |

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802.11b TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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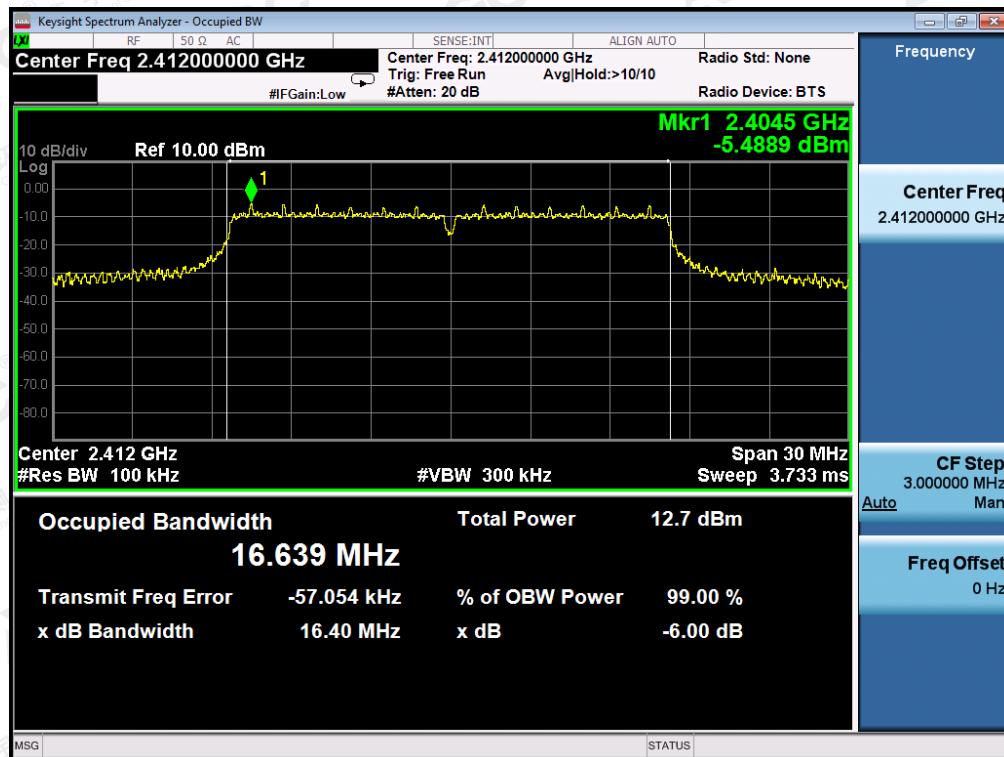


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



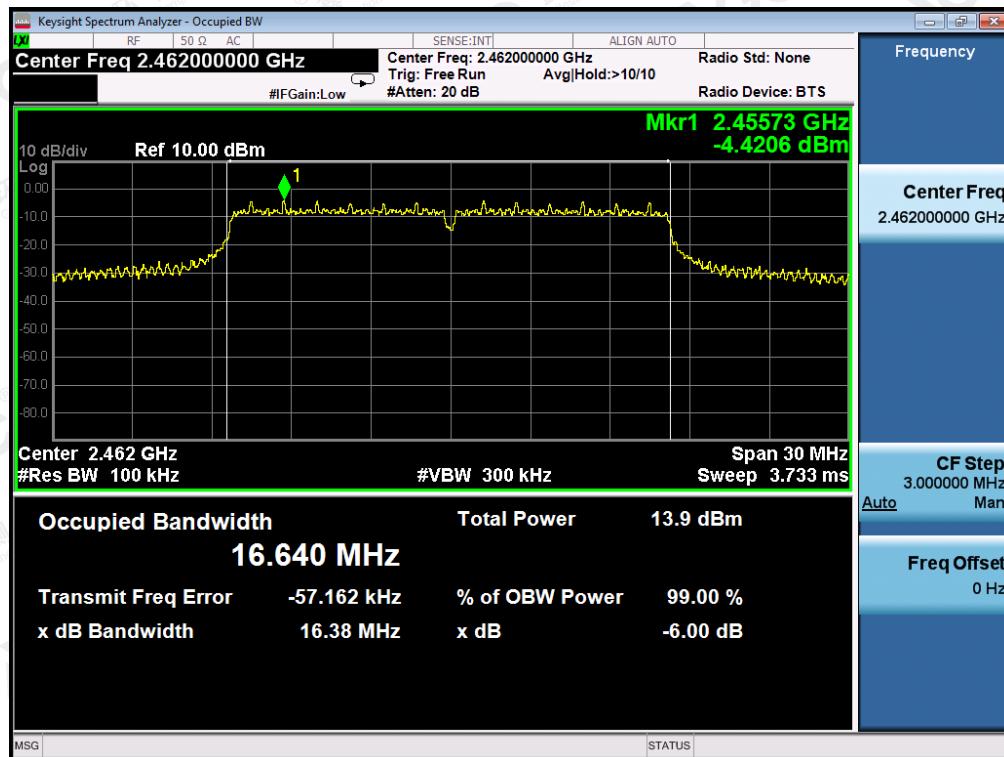
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

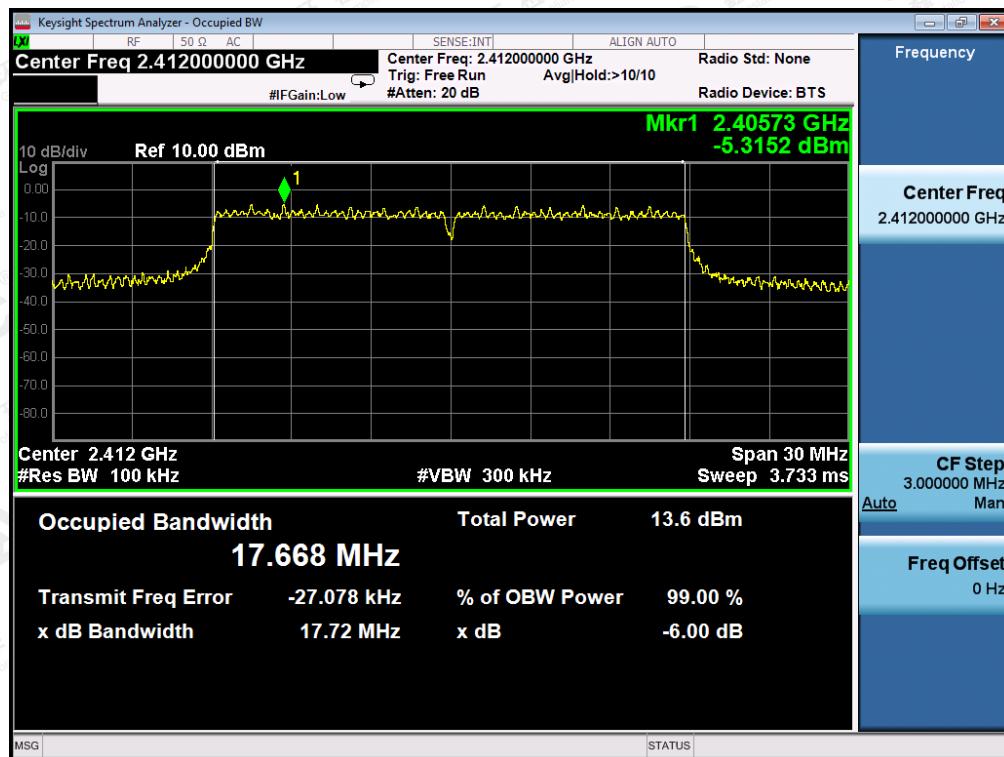
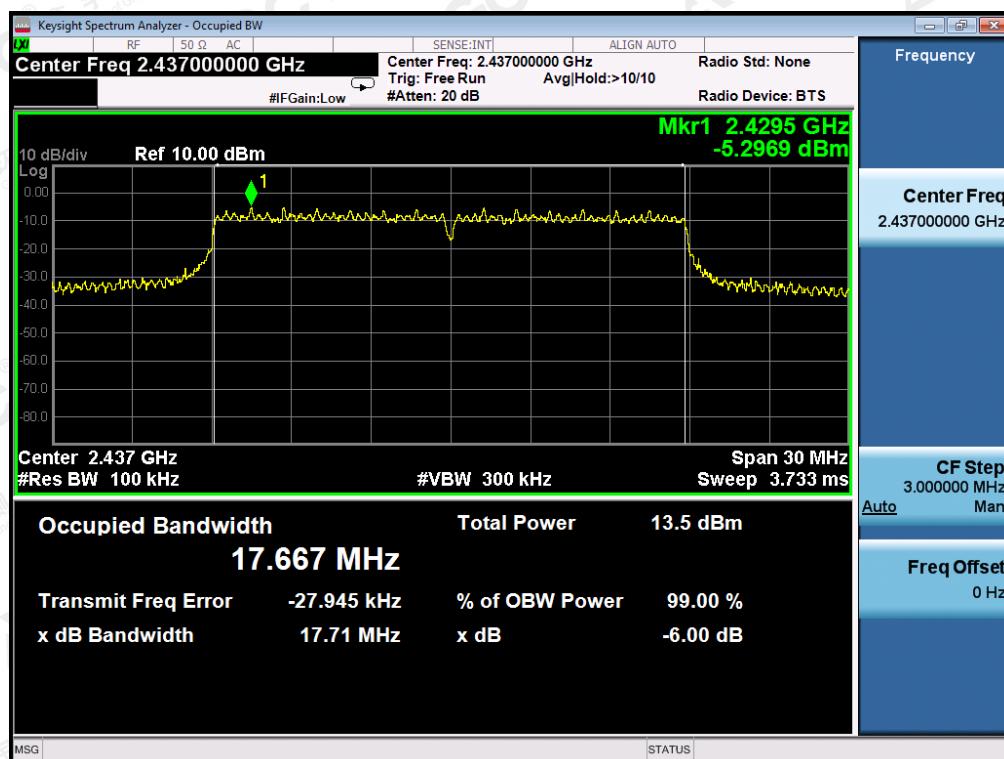


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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802.11n (20) TEST RESULT**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL****TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL**

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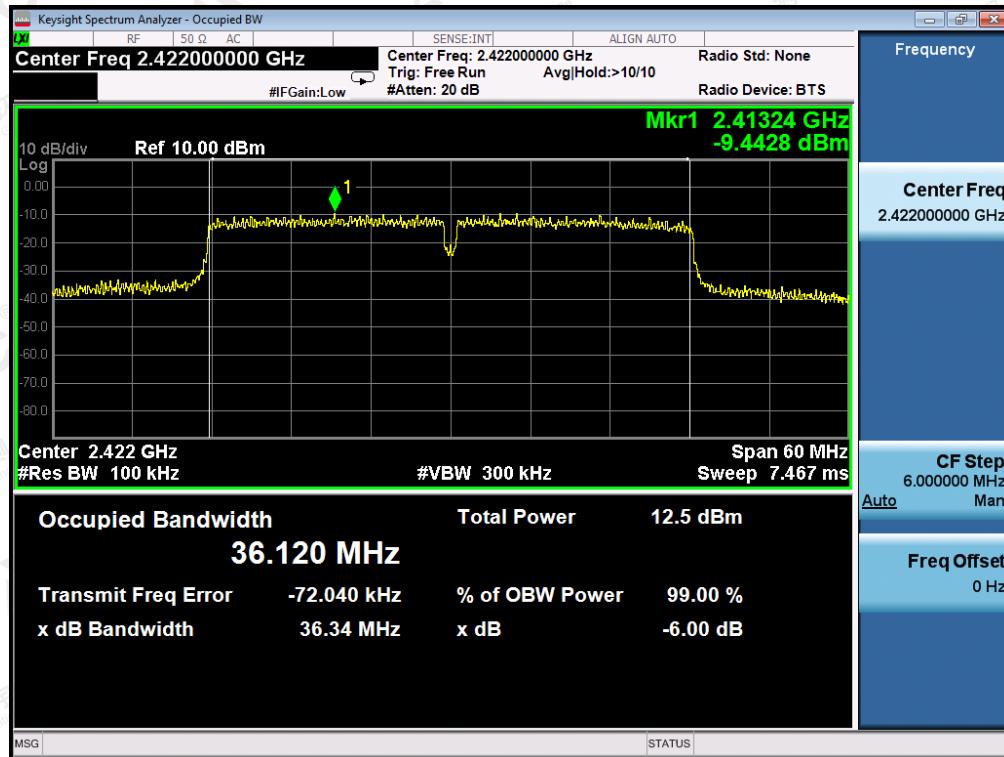


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11n (40) TEST RESULT

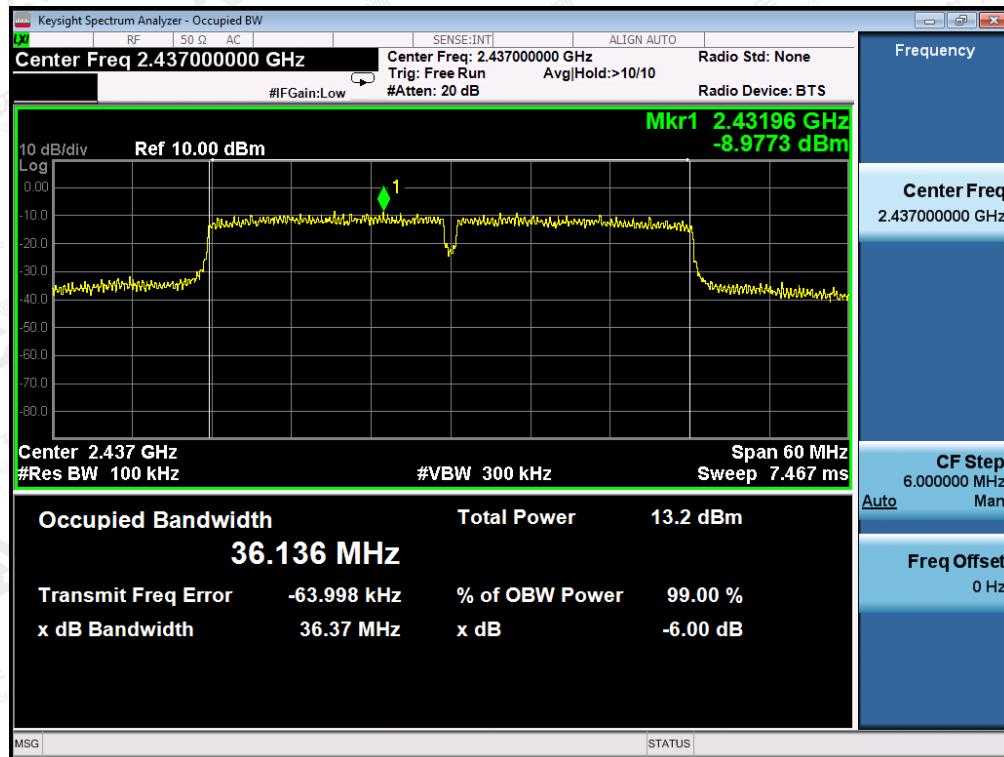
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



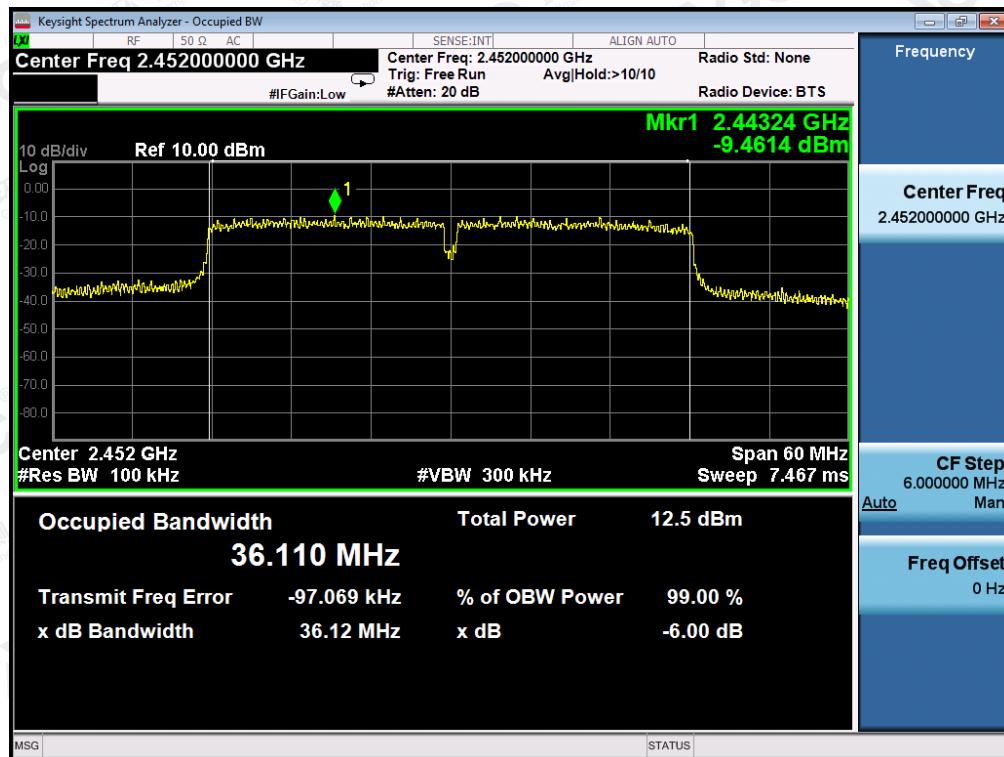
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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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 ANSI C63.10 (2013) 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

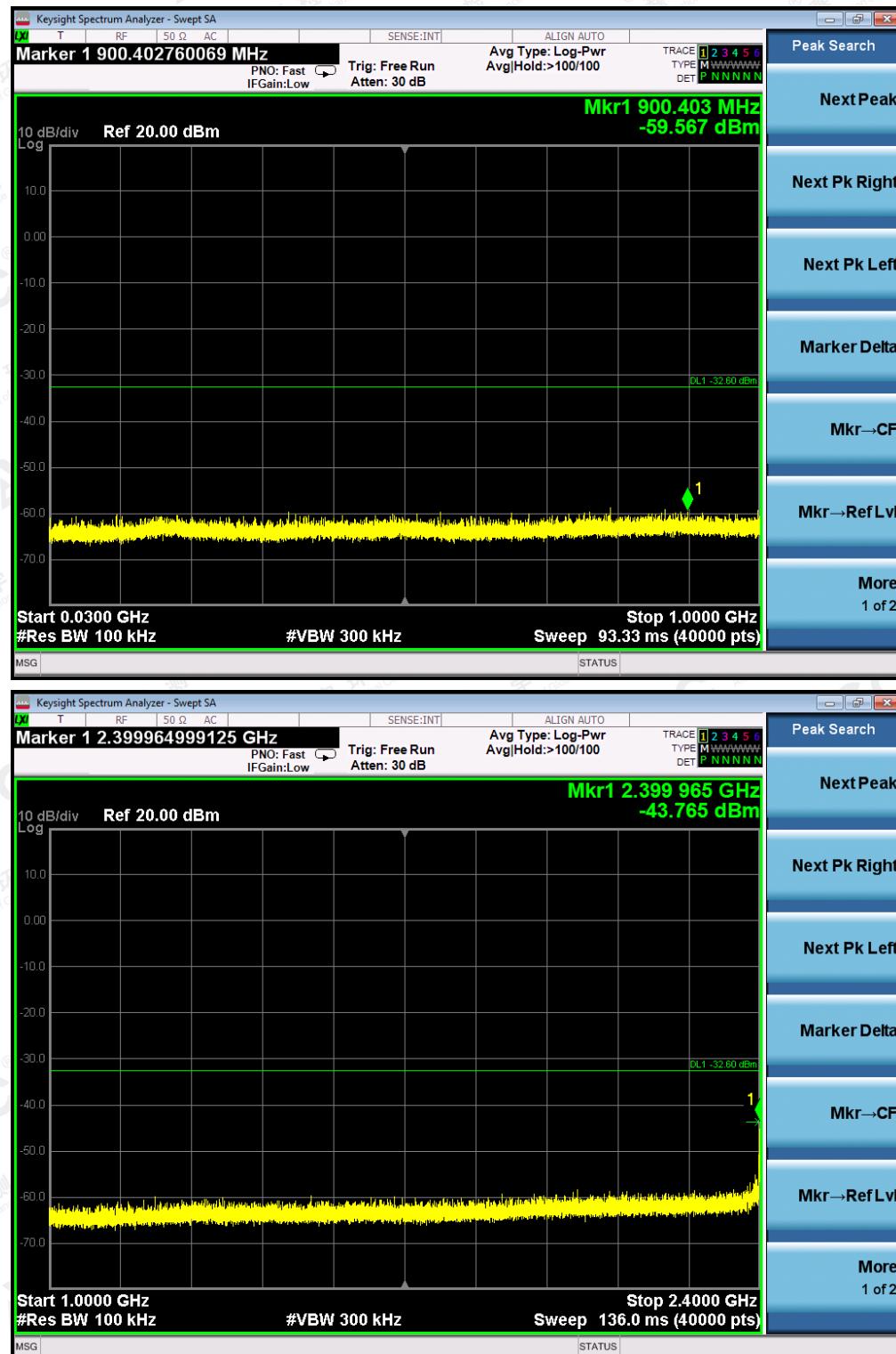
The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | |
|--|--|----------|
| Applicable Limits | Measurement Result | |
| | Test Data | Criteria |
| <p>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 30 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.</p> <p>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))</p> | At least -30dBc than the limit Specified on the BOTTOM Channel | PASS |
| | At least -30dBc than the limit Specified on the TOP Channel | PASS |

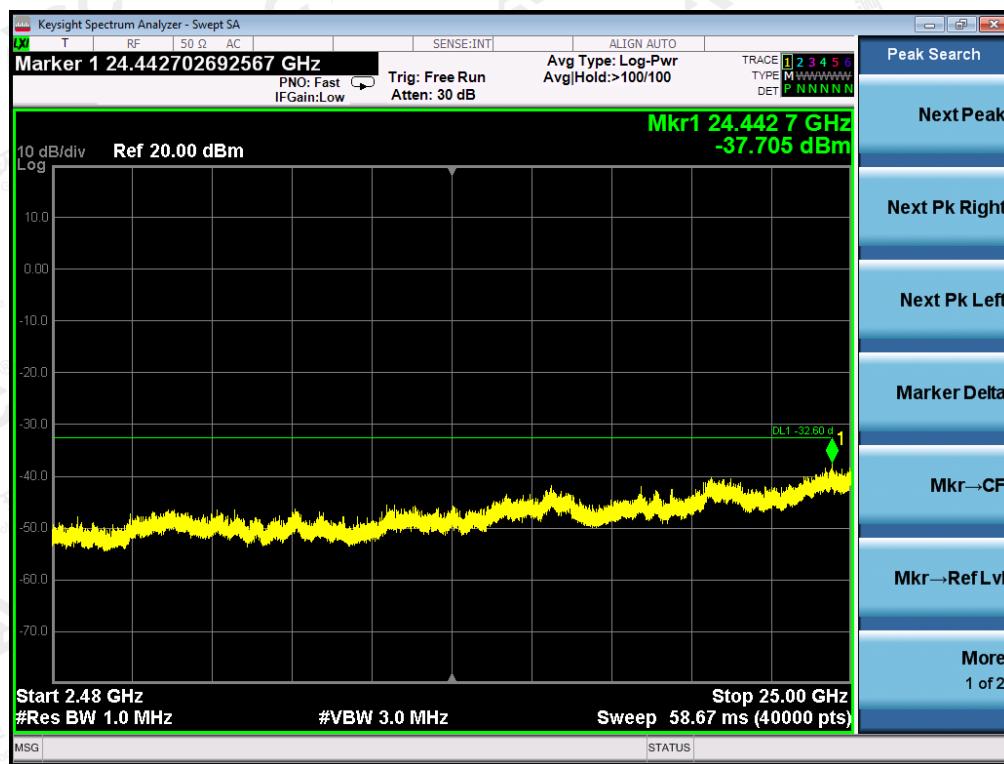
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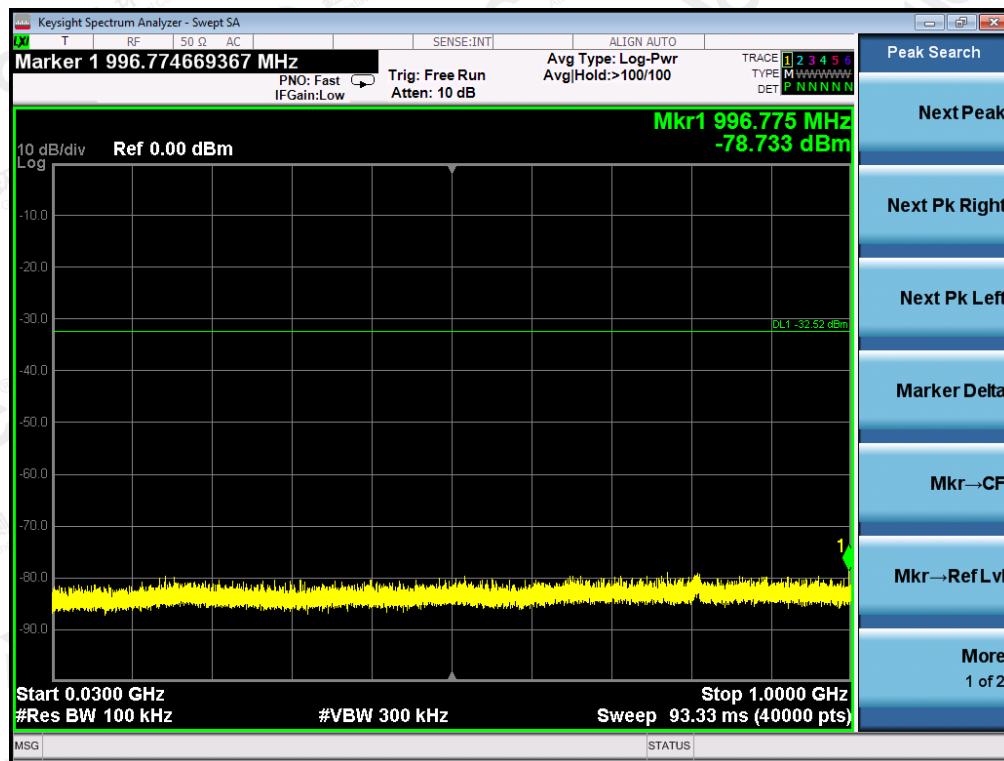
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11b FOR MODULATION IN LOW CHANNEL

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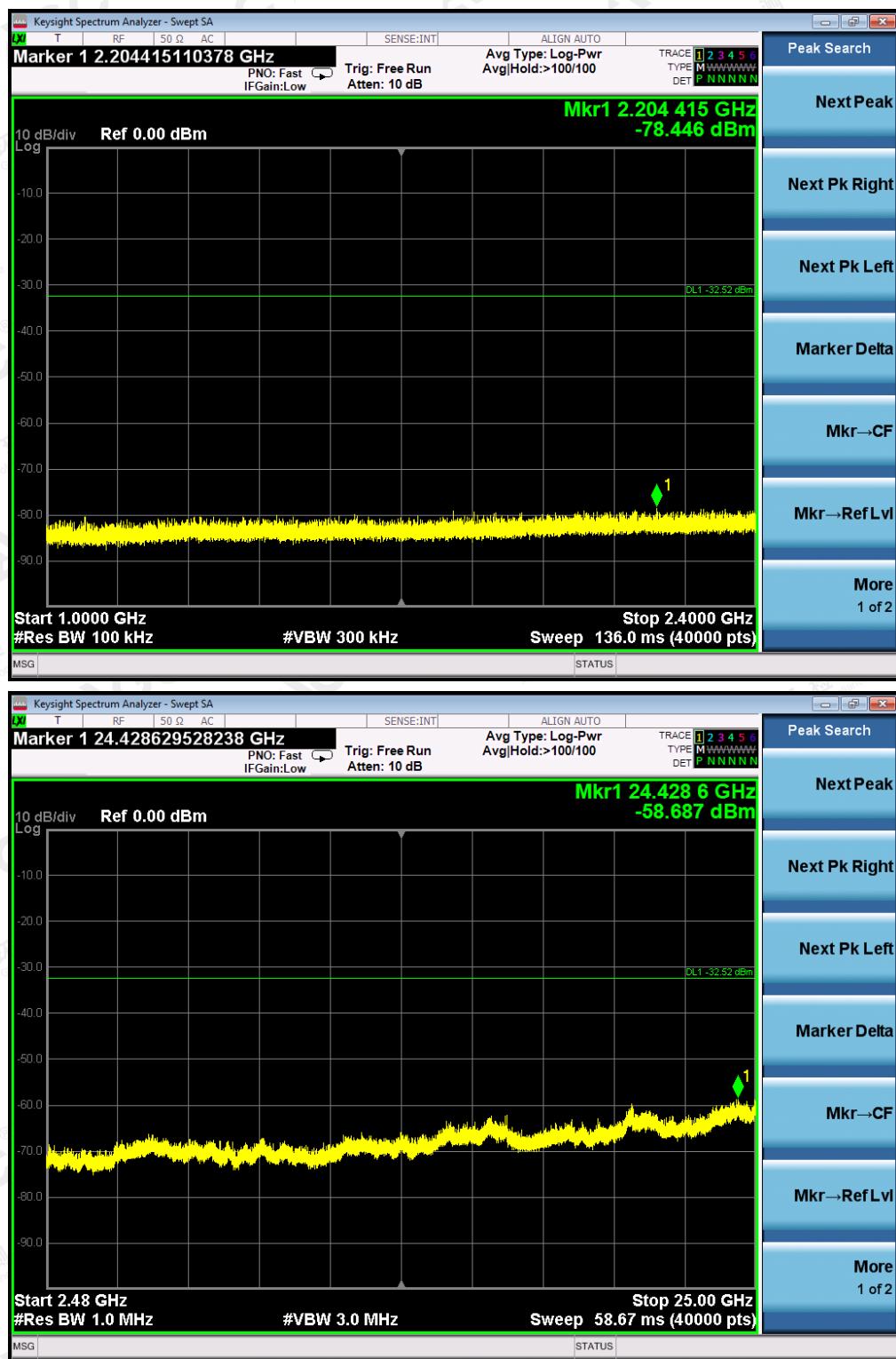


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



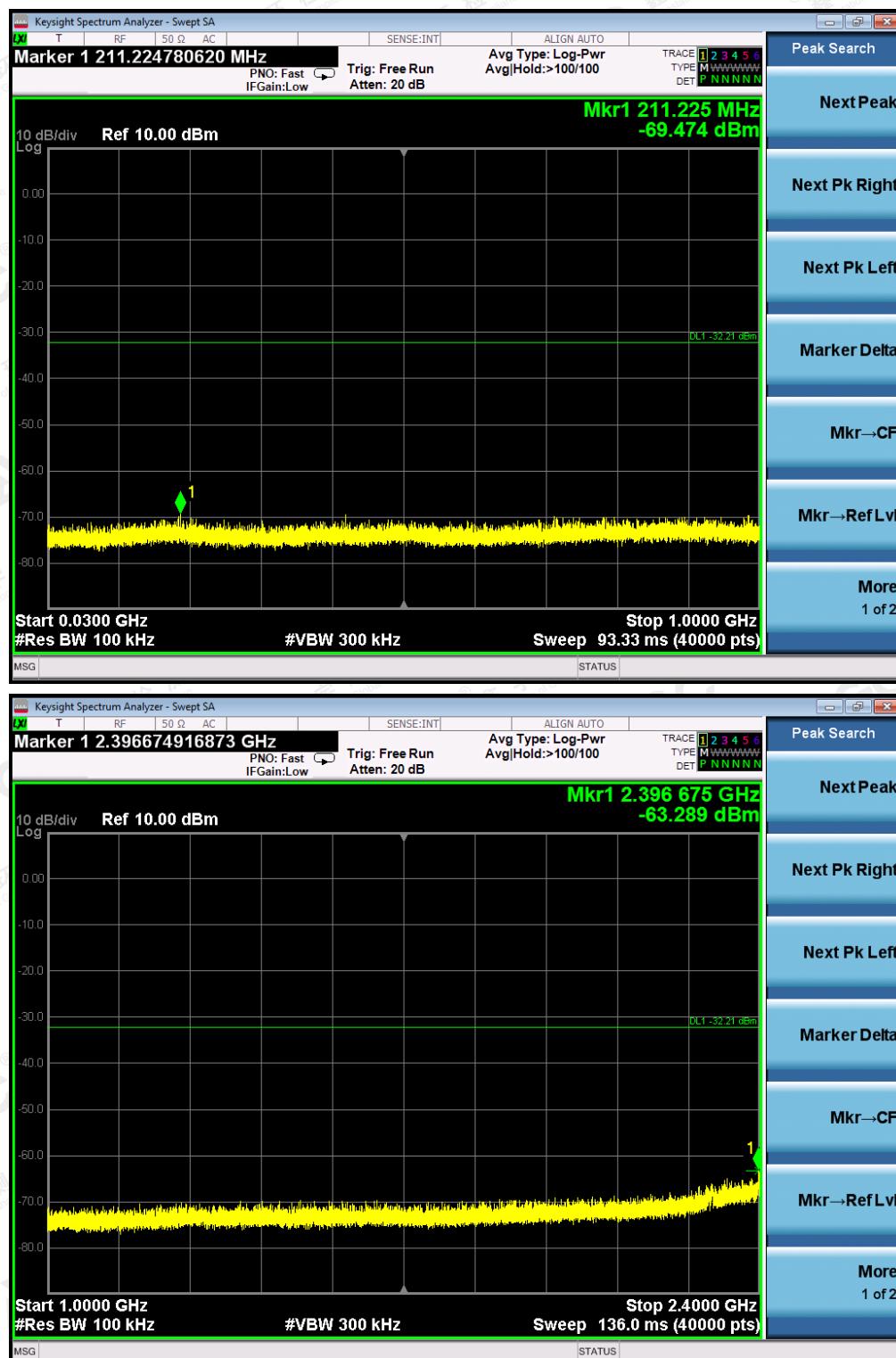
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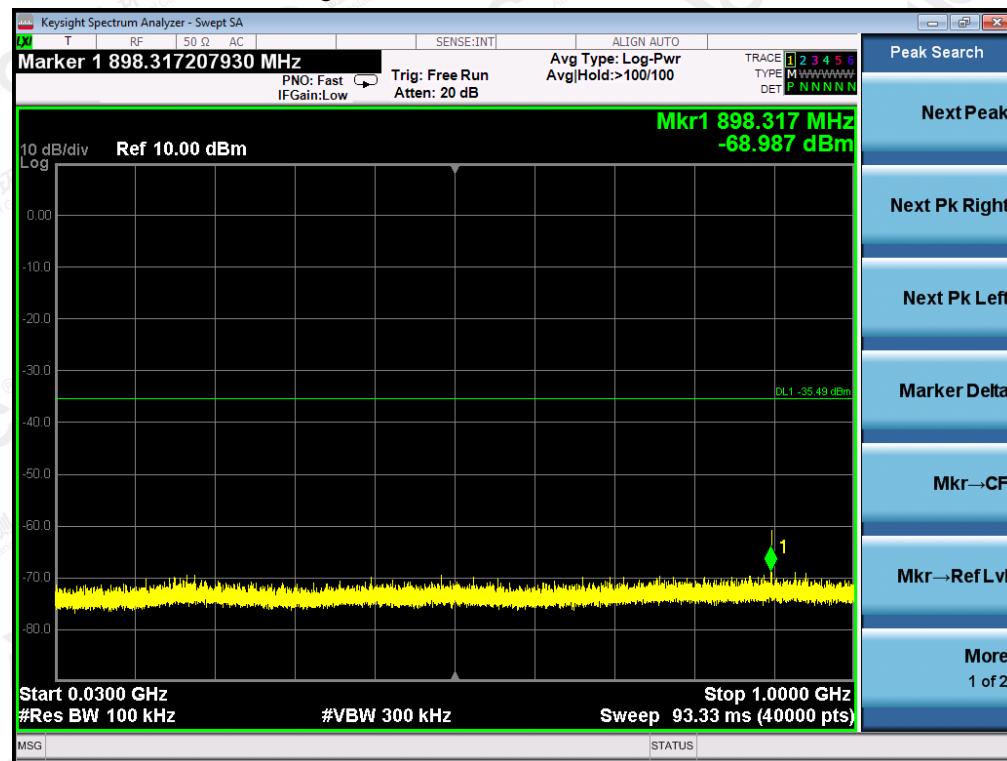
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11b FOR MODULATION IN HIGH CHANNEL

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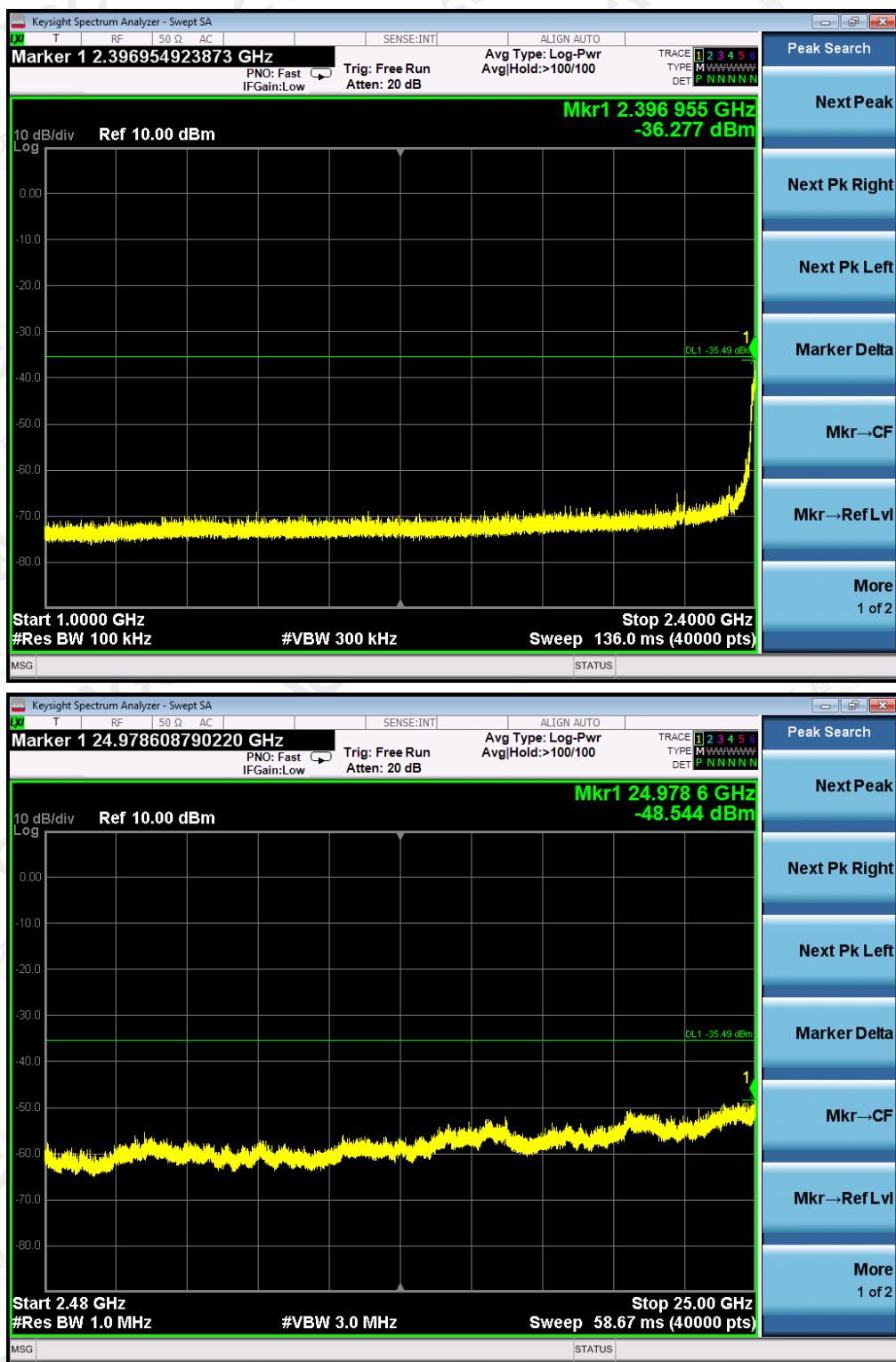


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11g FOR MODULATION IN LOW CHANNEL



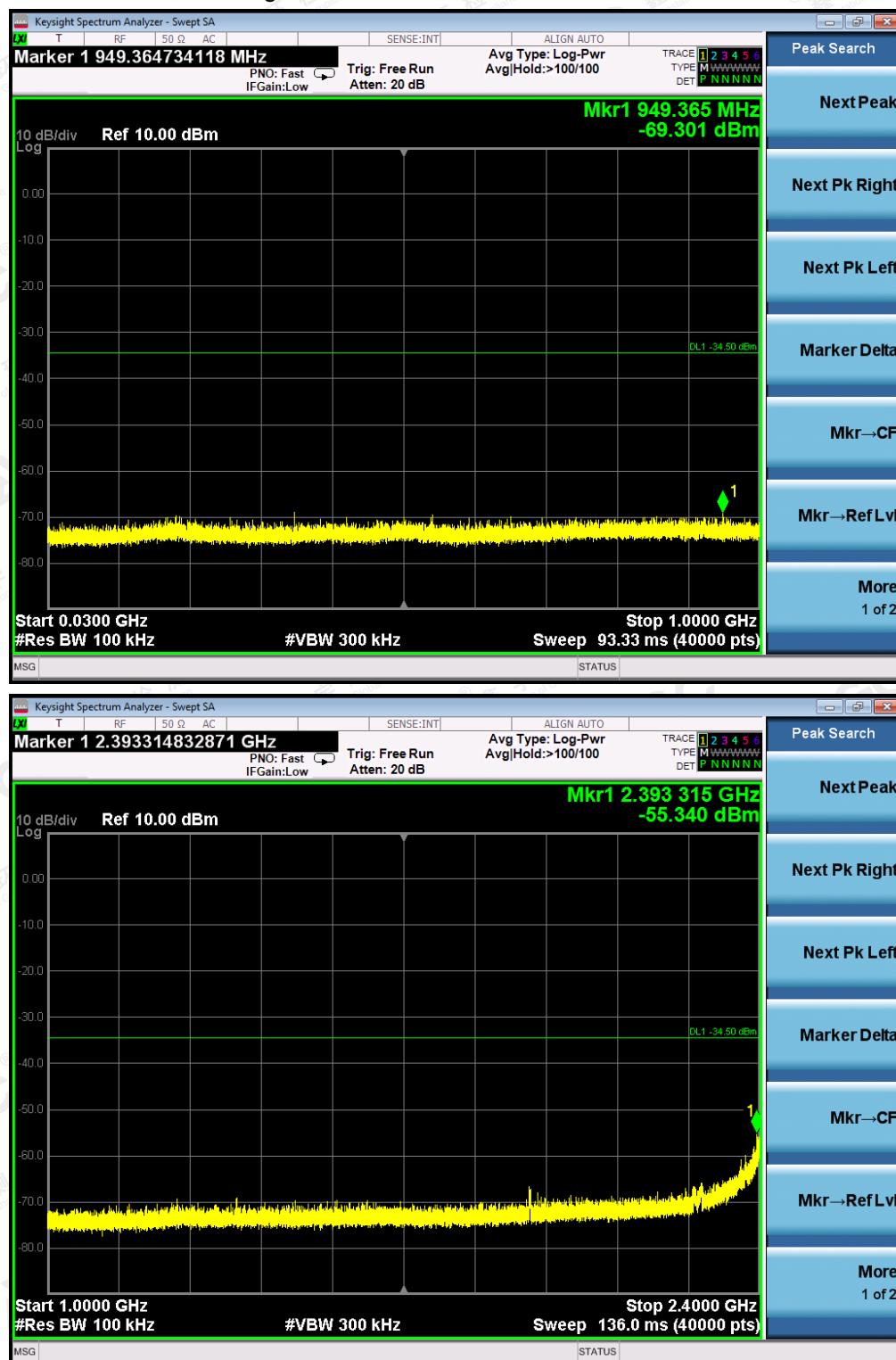
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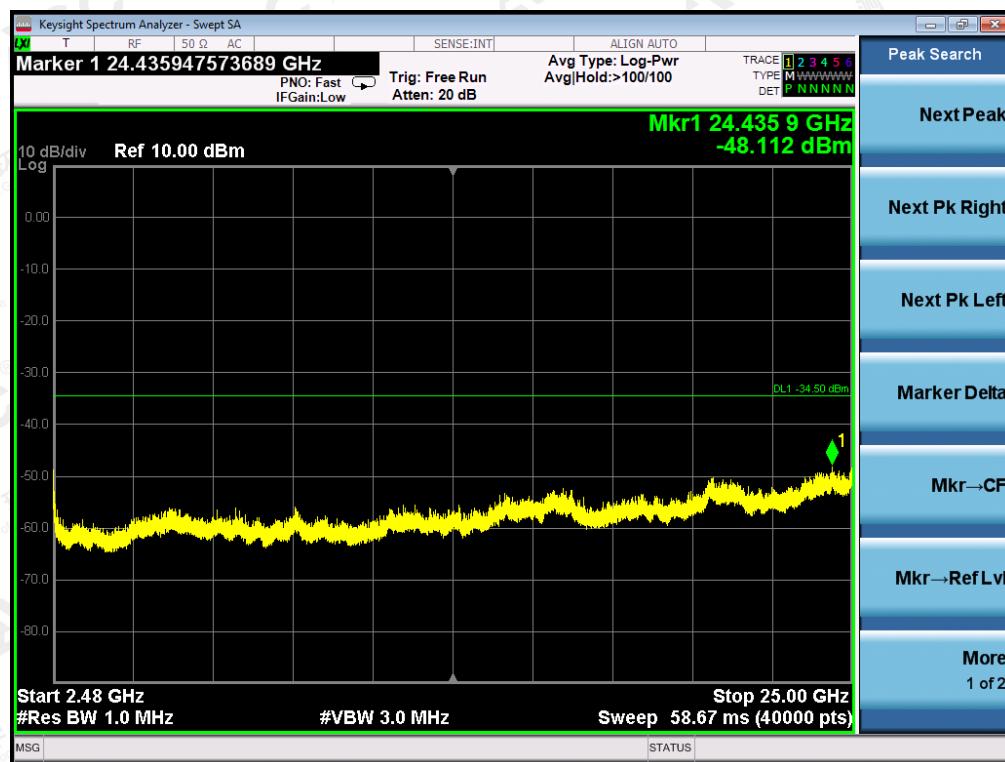
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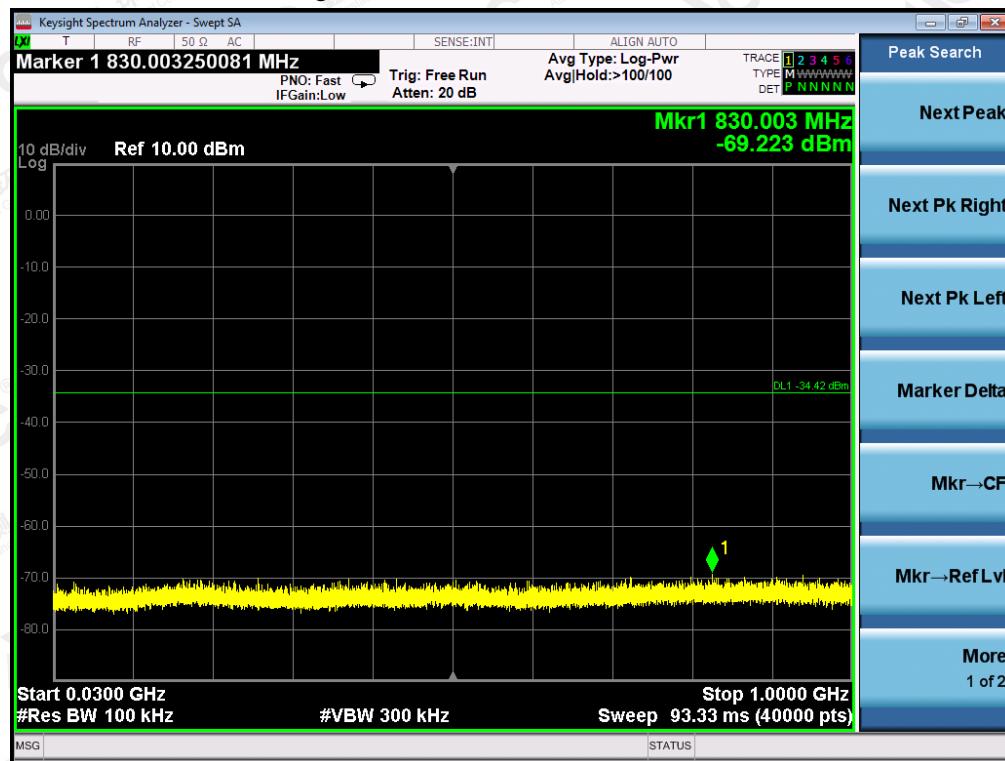
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11g FOR MODULATION IN MIDDLE CHANNEL

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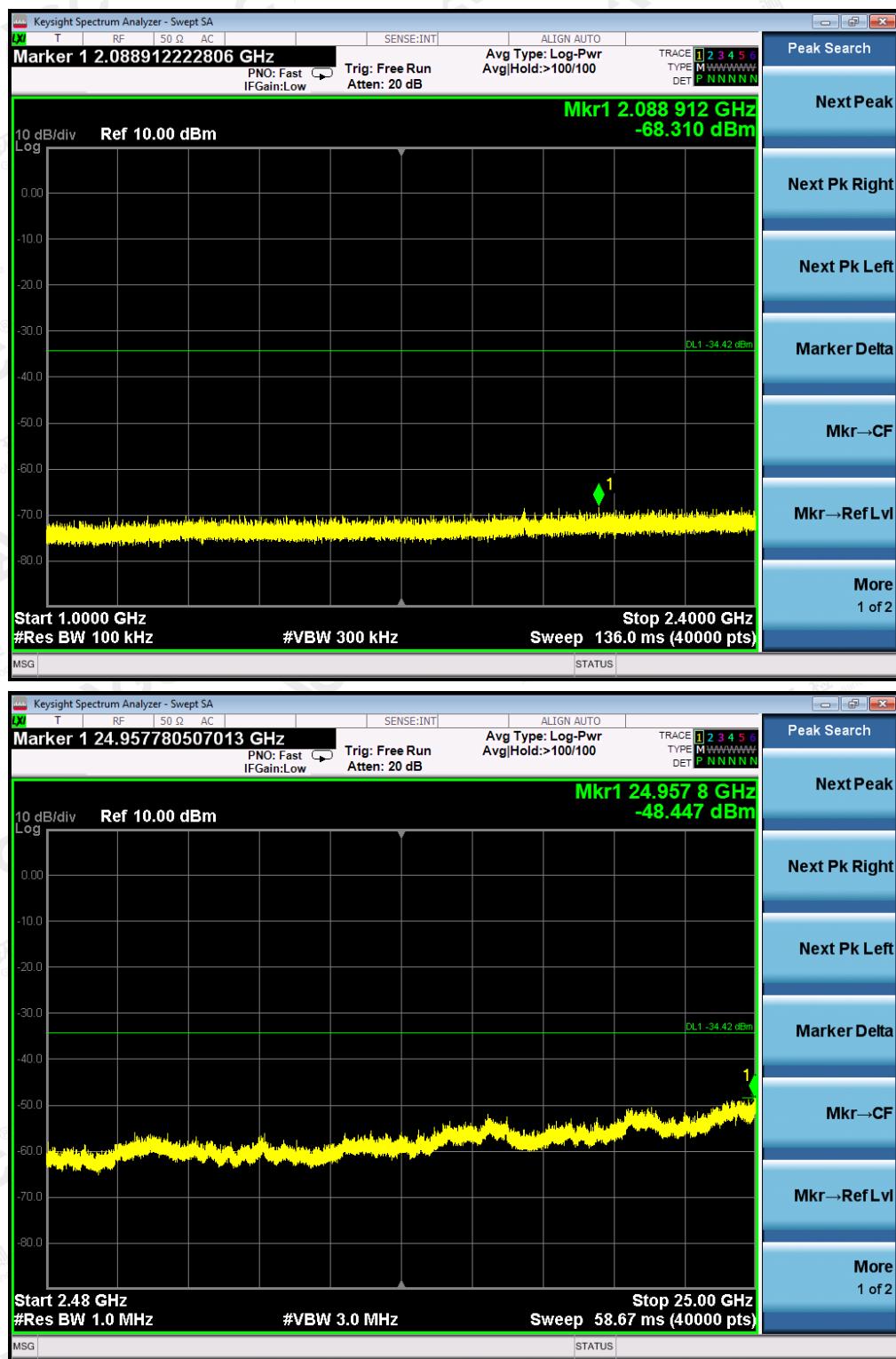


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11g FOR MODULATION IN HIGH CHANNEL



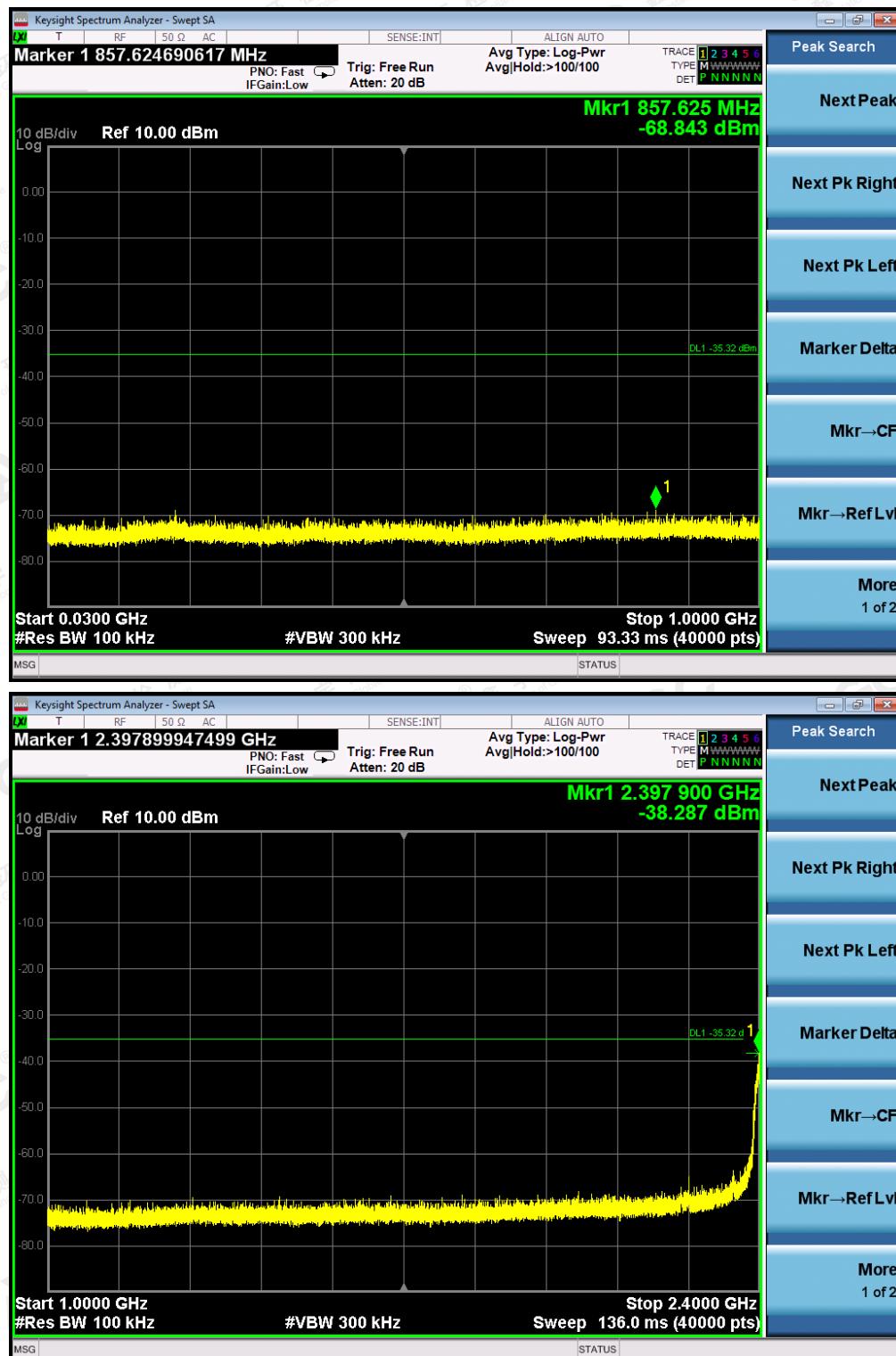
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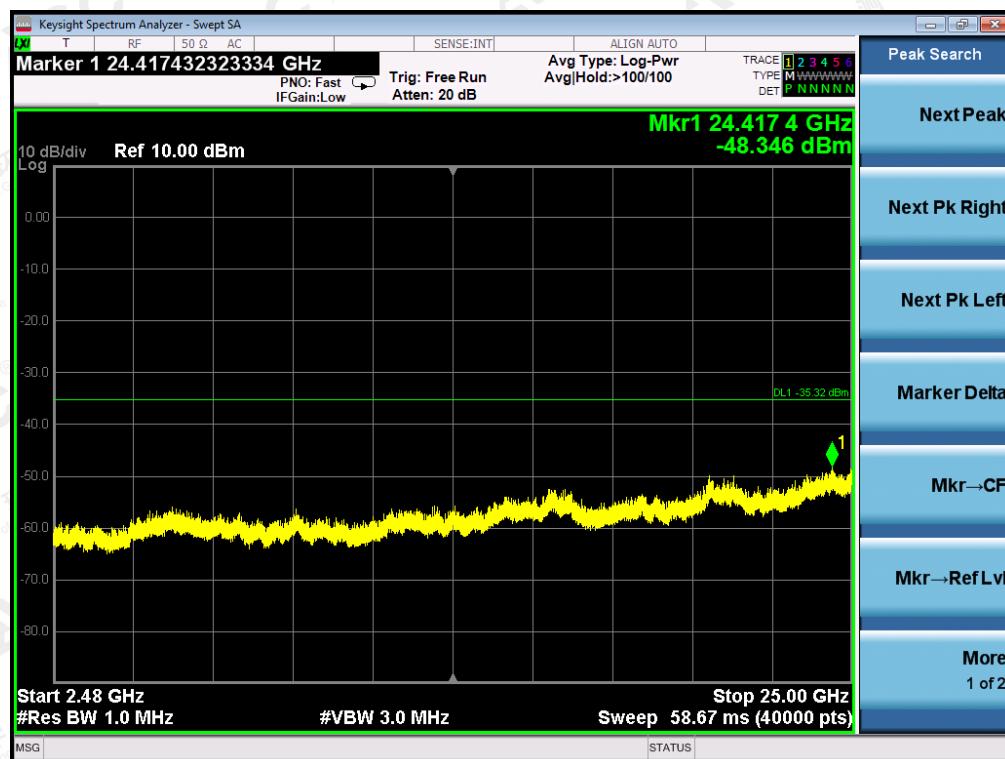
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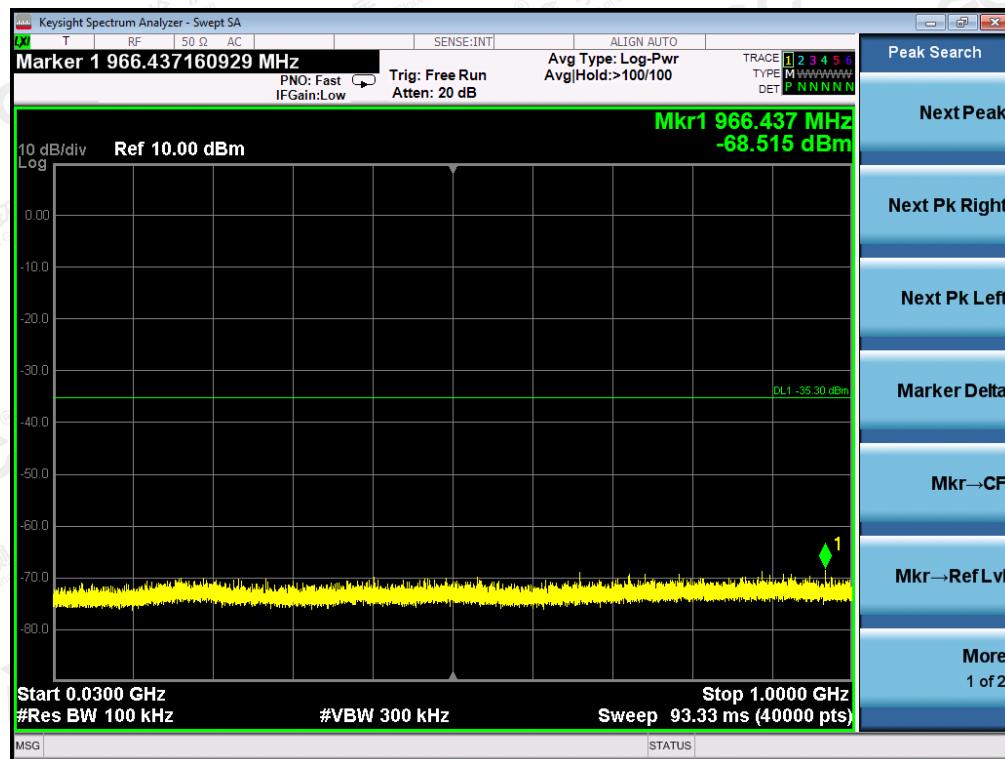
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n20 FOR MODULATION IN LOW CHANNEL

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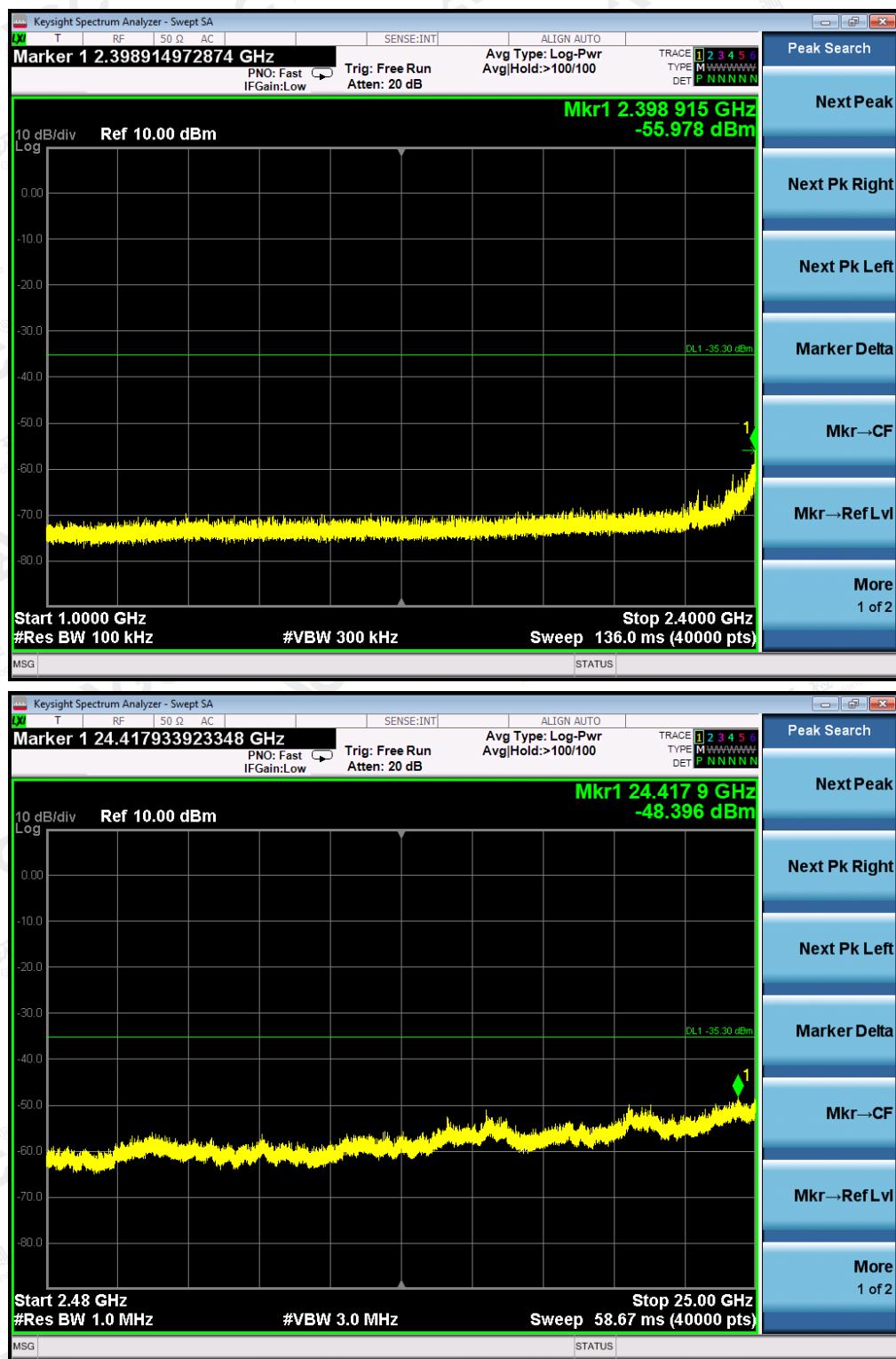


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL



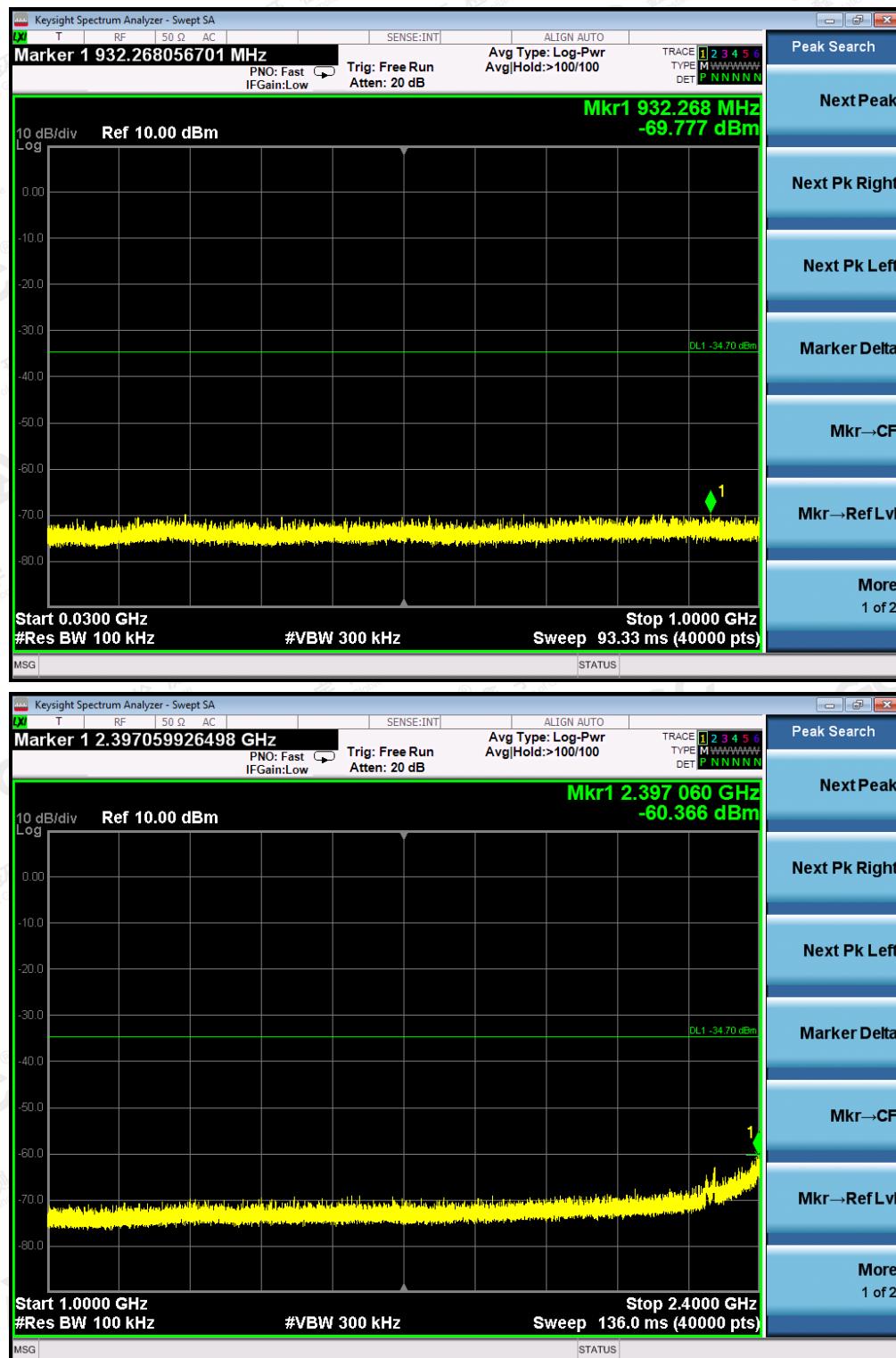
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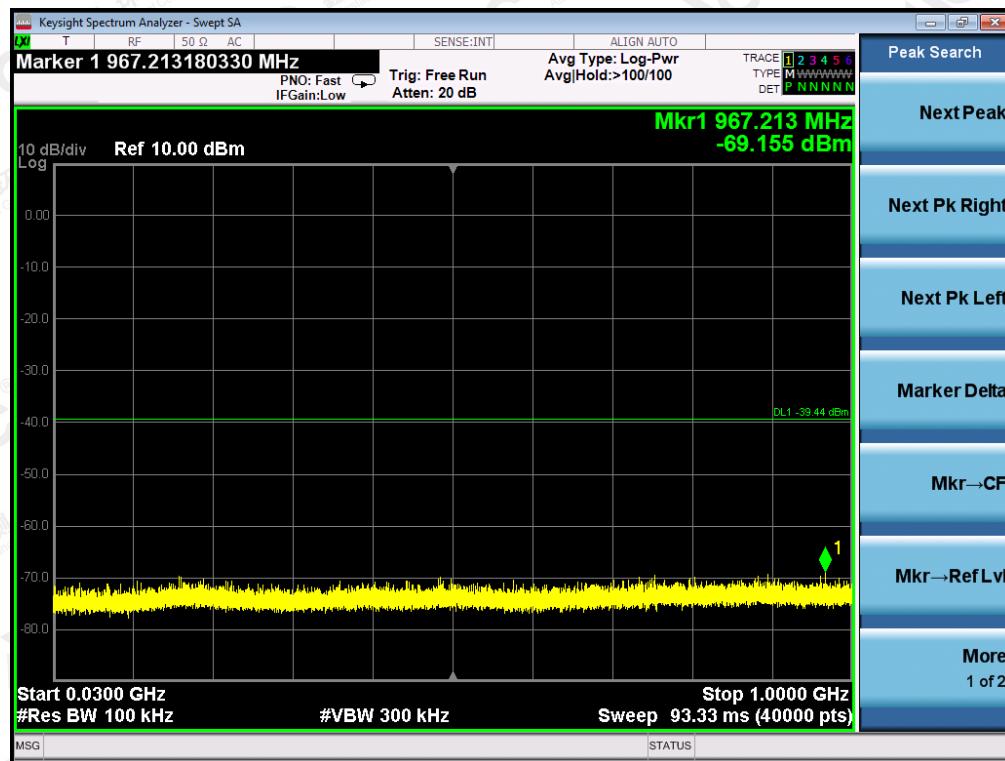
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

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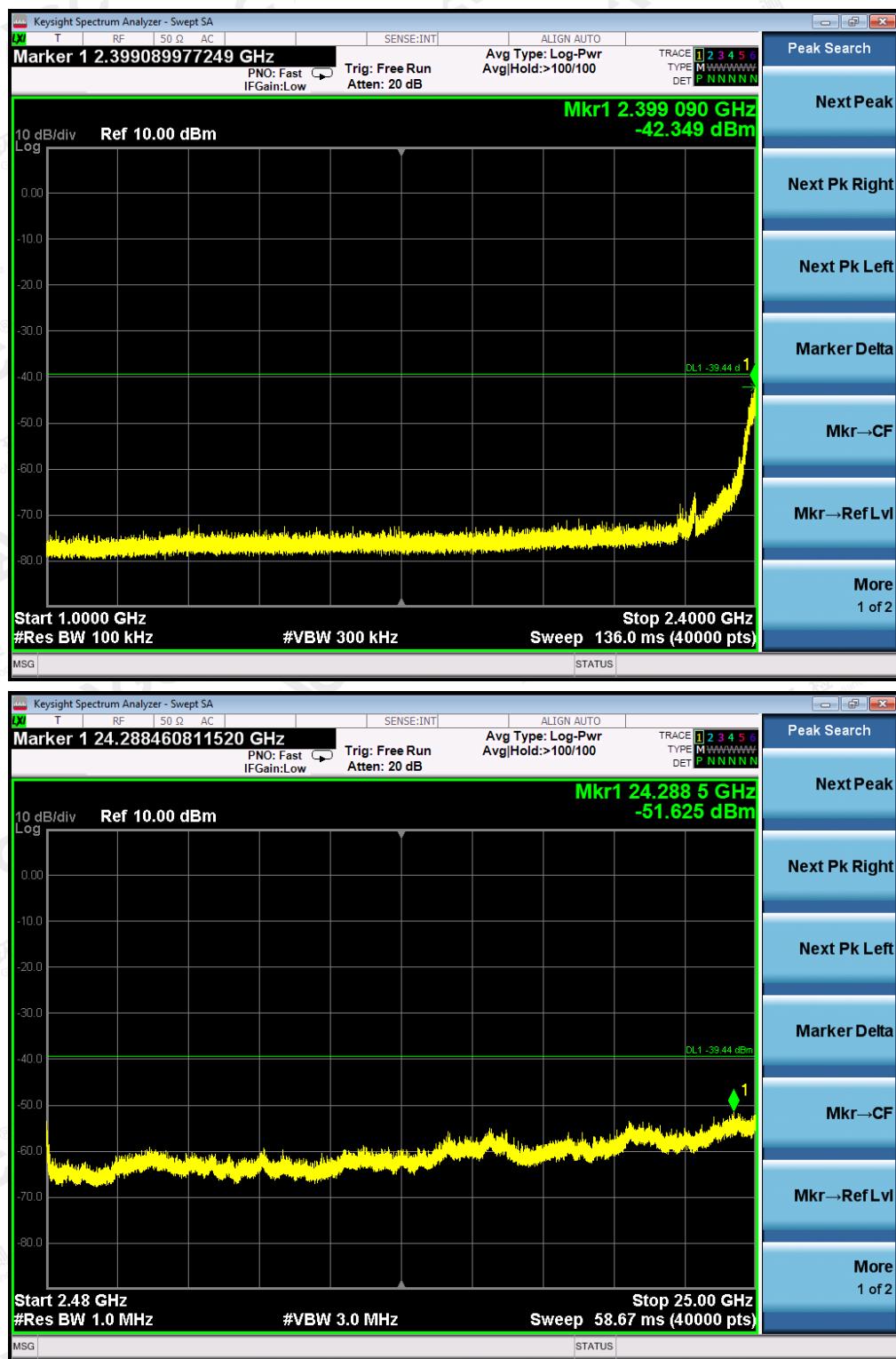


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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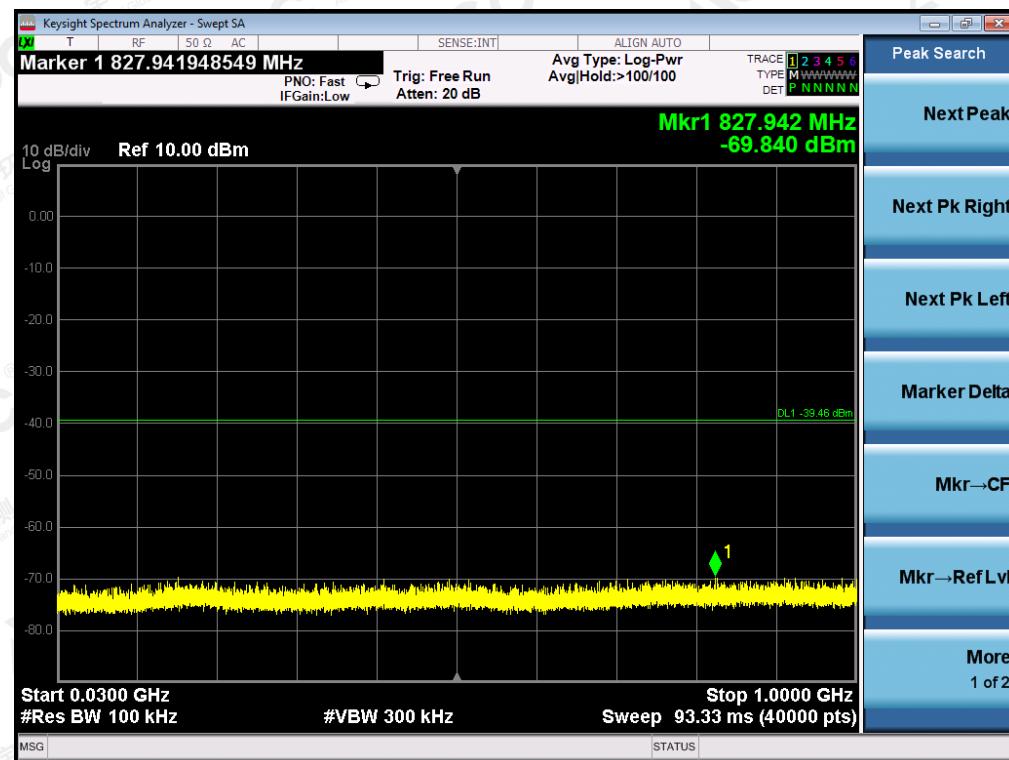
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL

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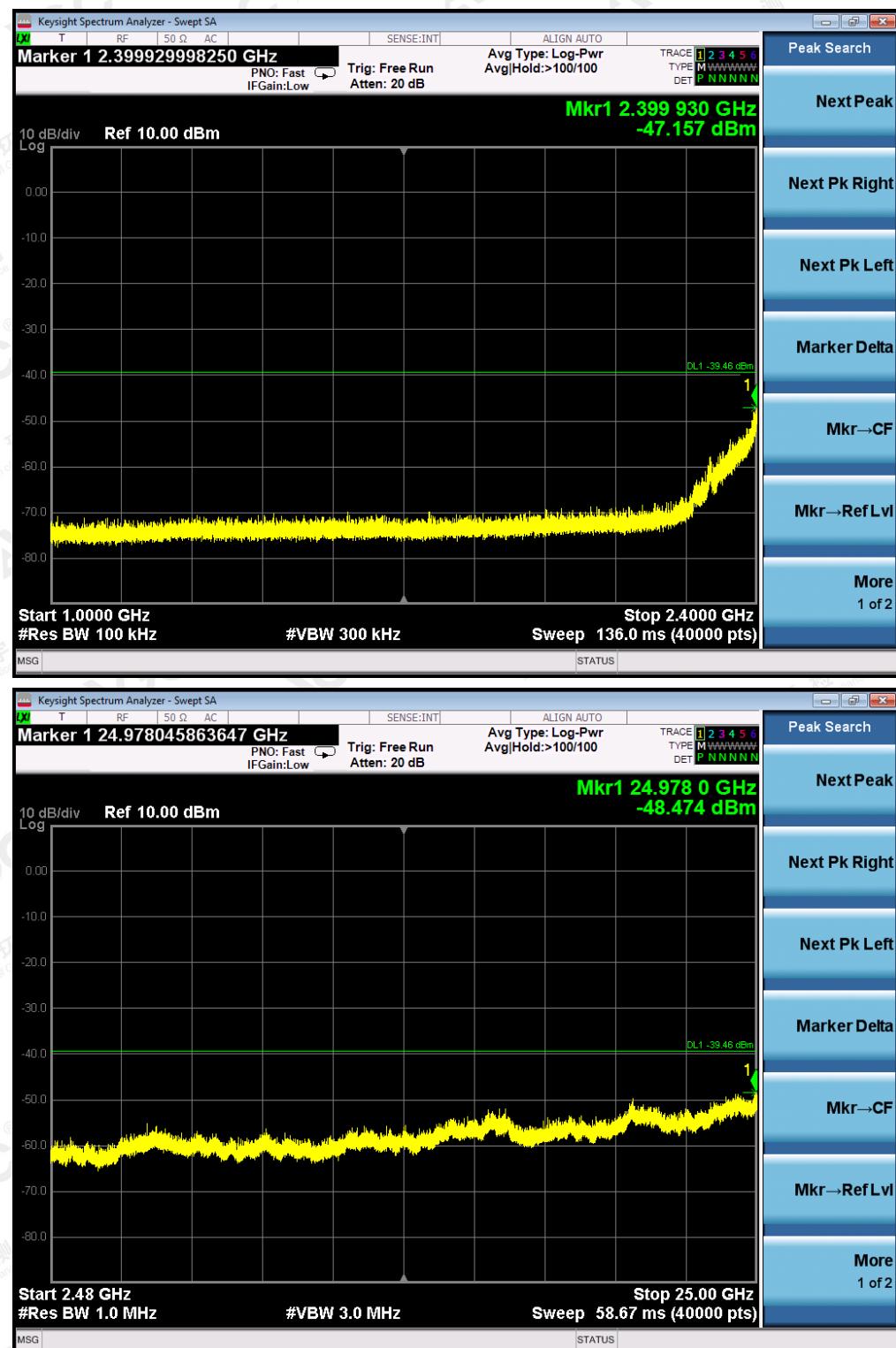


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n40 FOR MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 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 method of AVGPSD-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

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

| Channel No. | Power density (dBm/20kHz) | Limit (dBm/3kHz) | Result |
|----------------|---------------------------|------------------|--------|
| Low Channel | -6.840 | 8 | Pass |
| Middle Channel | -7.758 | 8 | Pass |
| High Channel | -8.054 | 8 | Pass |

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

| Channel No. | Power density (dBm/20kHz) | Limit (dBm/3kHz) | Result |
|----------------|---------------------------|------------------|--------|
| Low Channel | -9.621 | 8 | Pass |
| Middle Channel | -8.832 | 8 | Pass |
| High Channel | -9.467 | 8 | Pass |

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

| Channel No. | Power density (dBm/20kHz) | Limit (dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel | -10.827 | 8 | Pass |
| Middle Channel | -10.394 | 8 | Pass |
| High Channel | -9.620 | 8 | Pass |

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

| Channel No. | Power density (dBm/20kHz) | Limit (dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel | -14.566 | 8 | Pass |
| Middle Channel | -13.024 | 8 | Pass |
| High Channel | -14.701 | 8 | Pass |

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802.11b TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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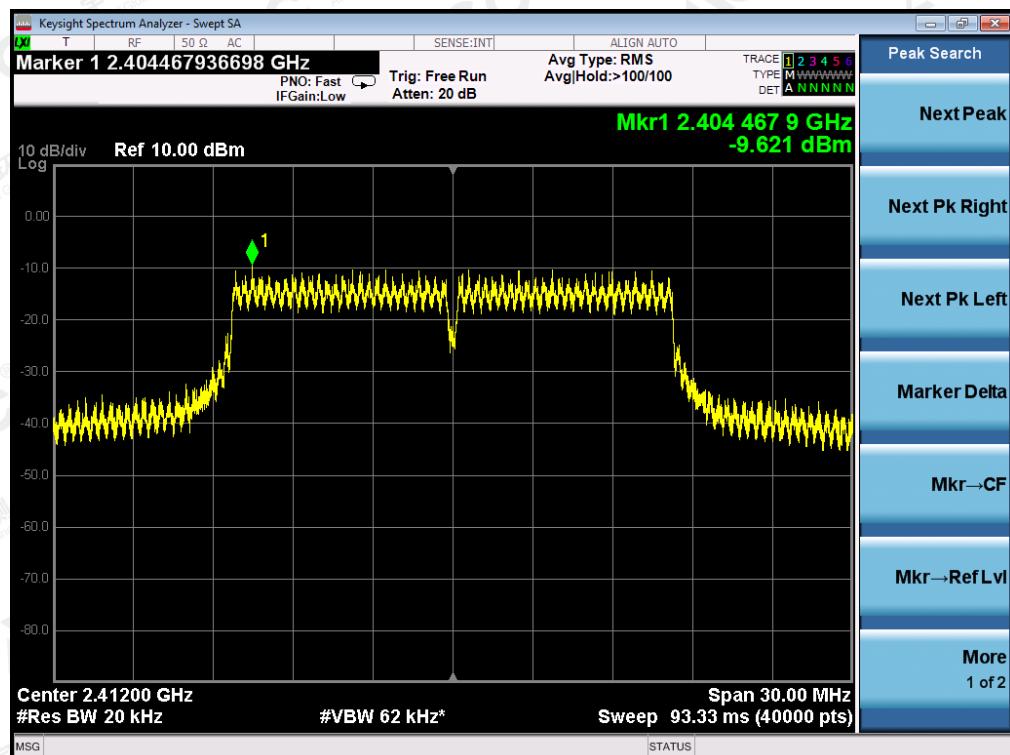


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11g TEST RESULT

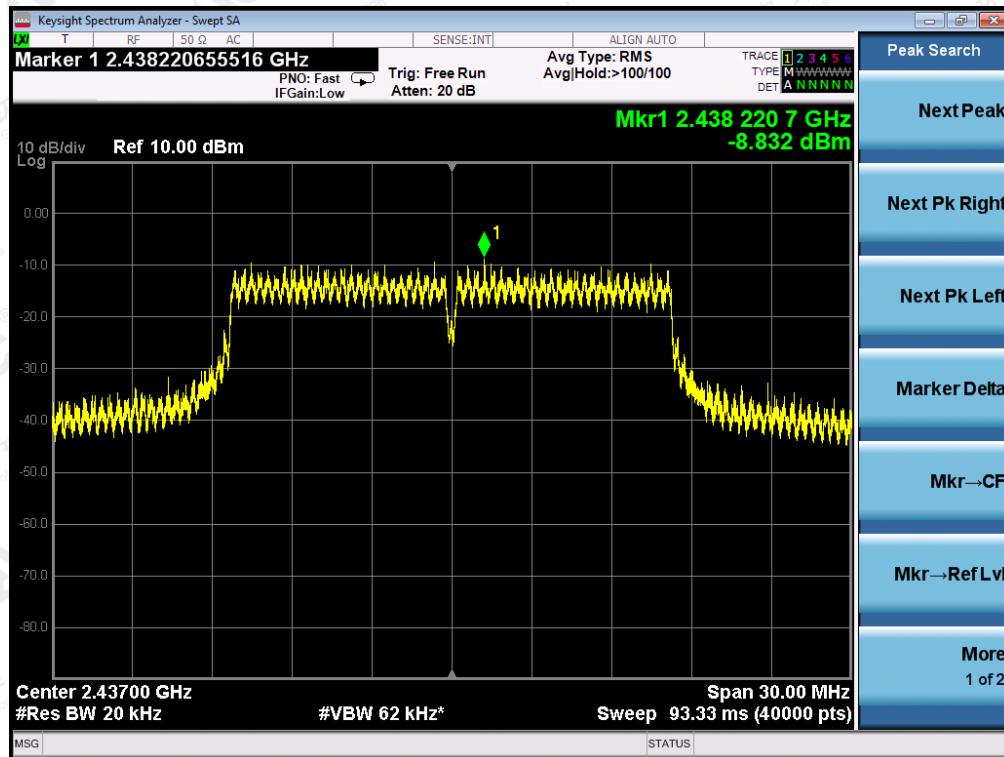
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



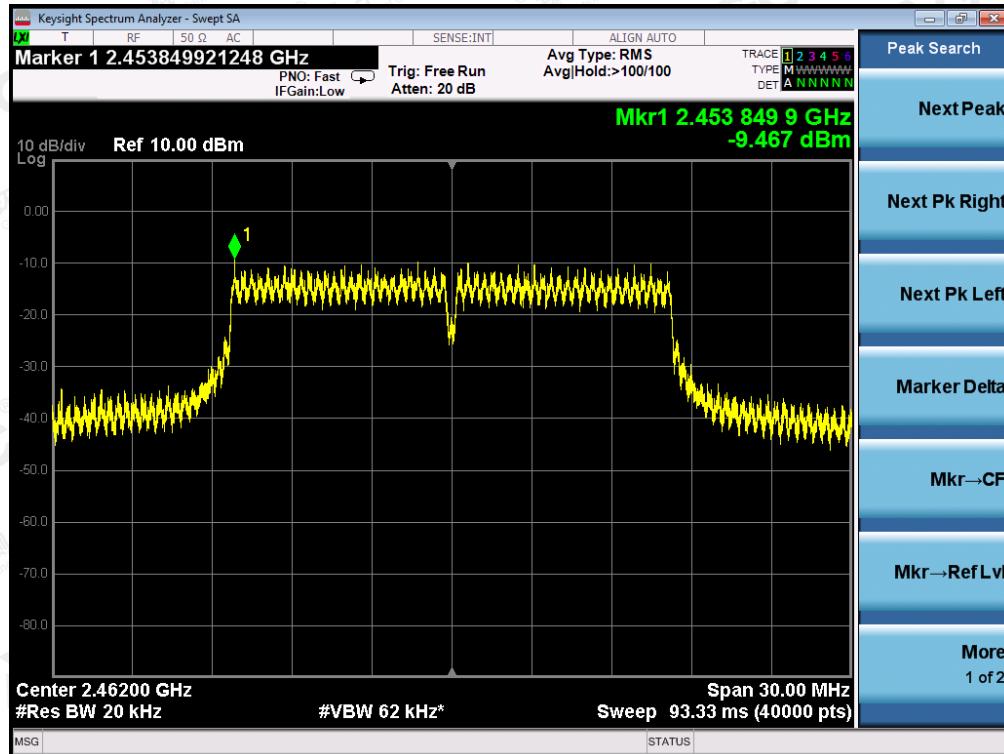
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

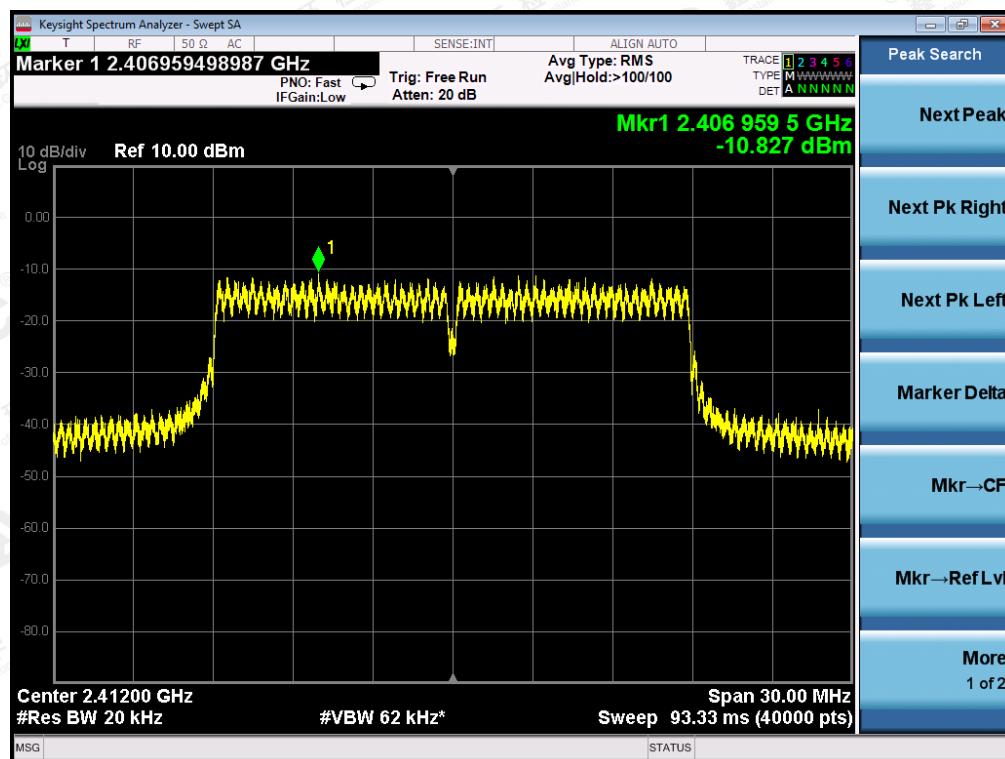


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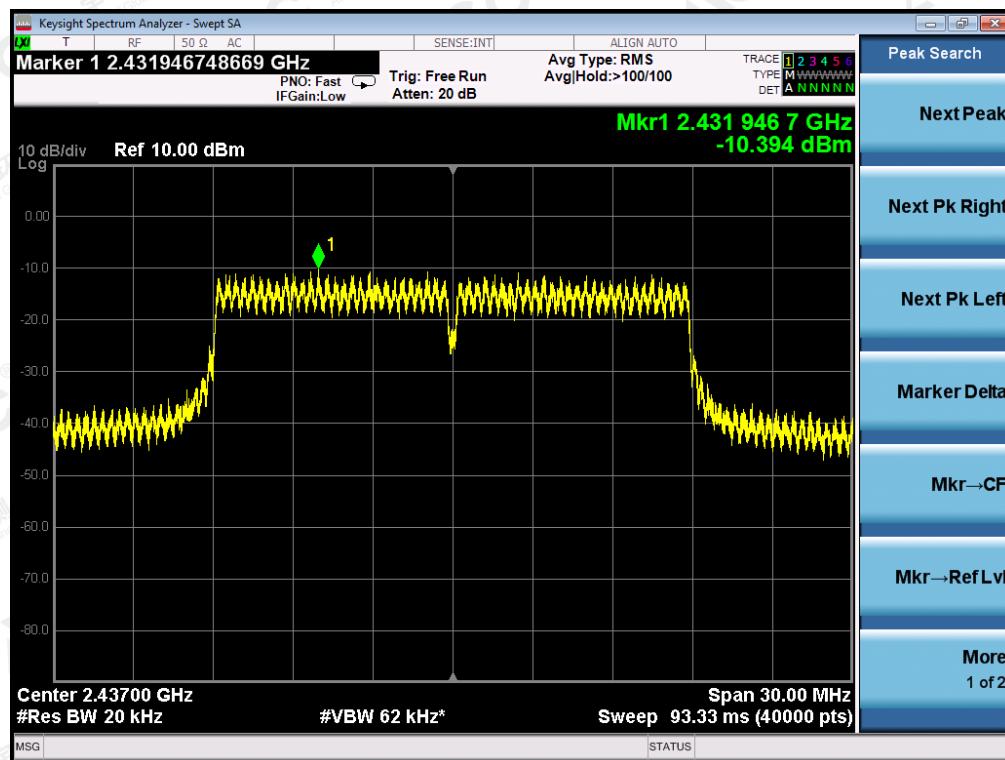


802.11n 20 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



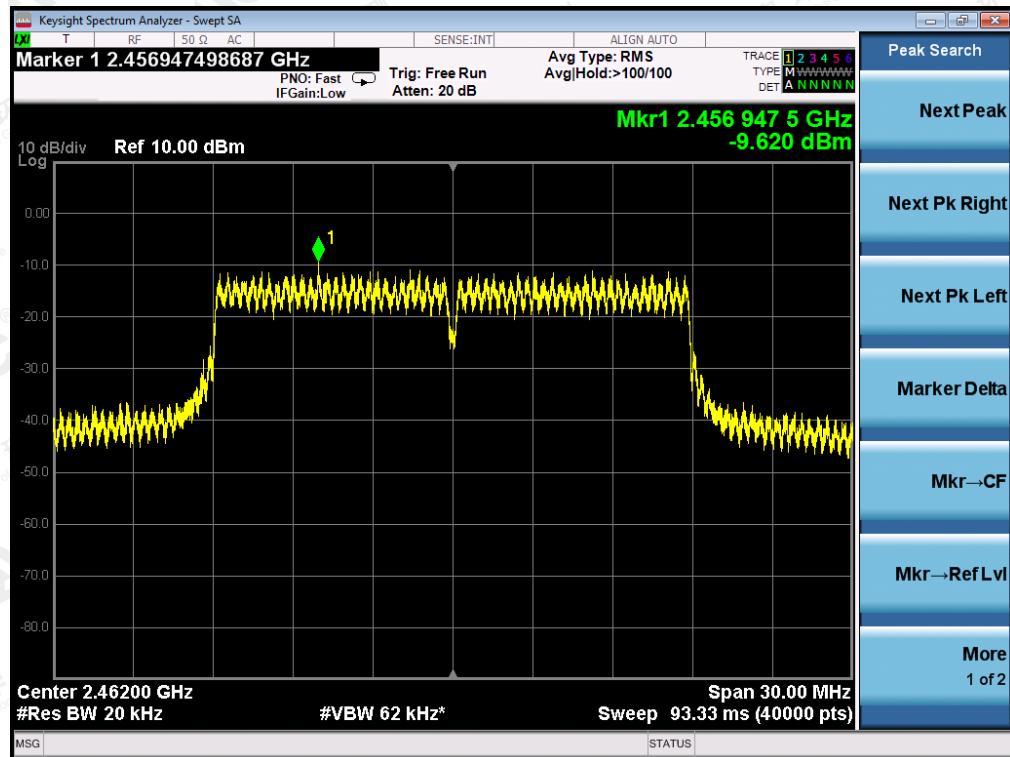
TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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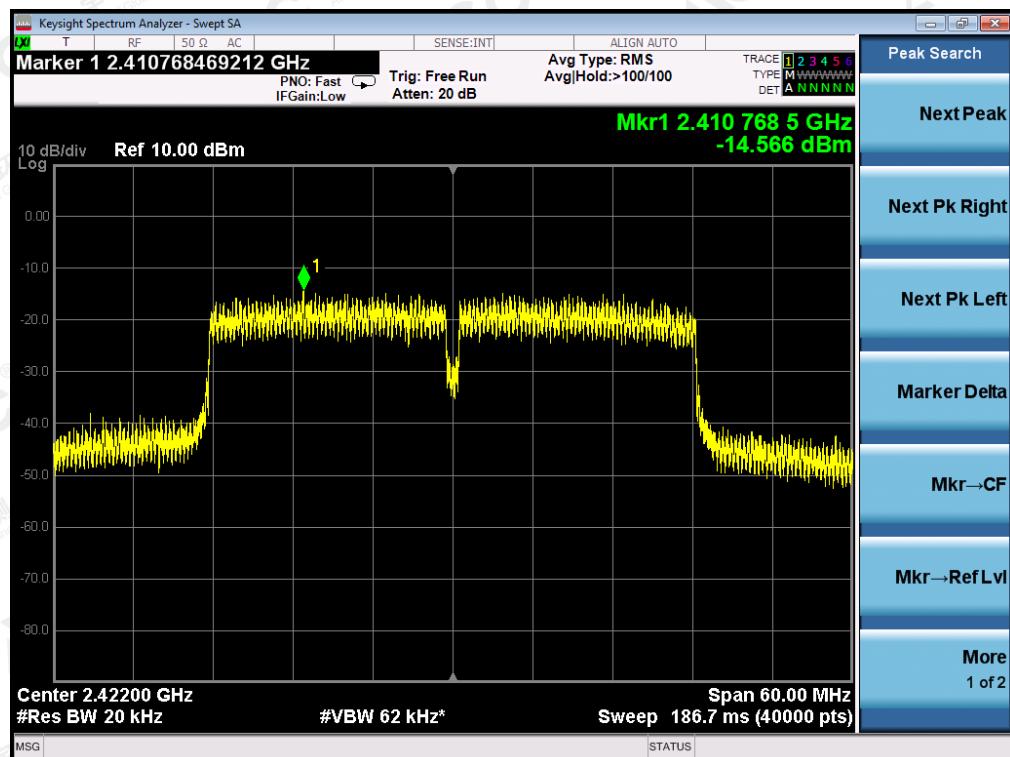


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11n 40 TEST RESULT

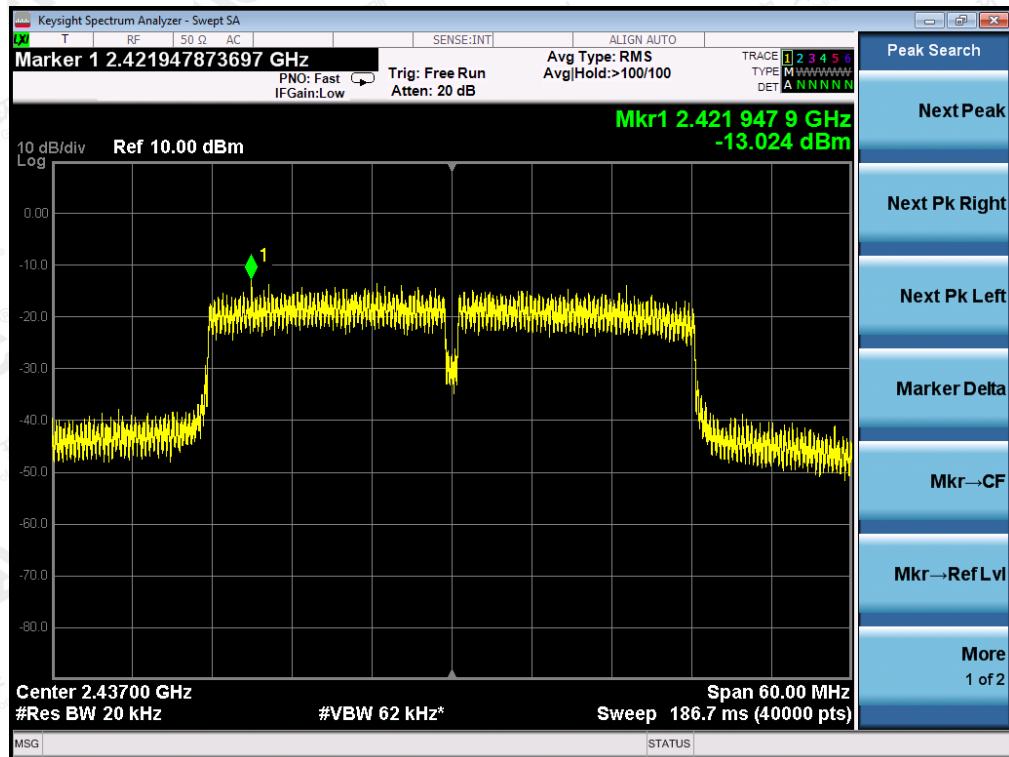
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



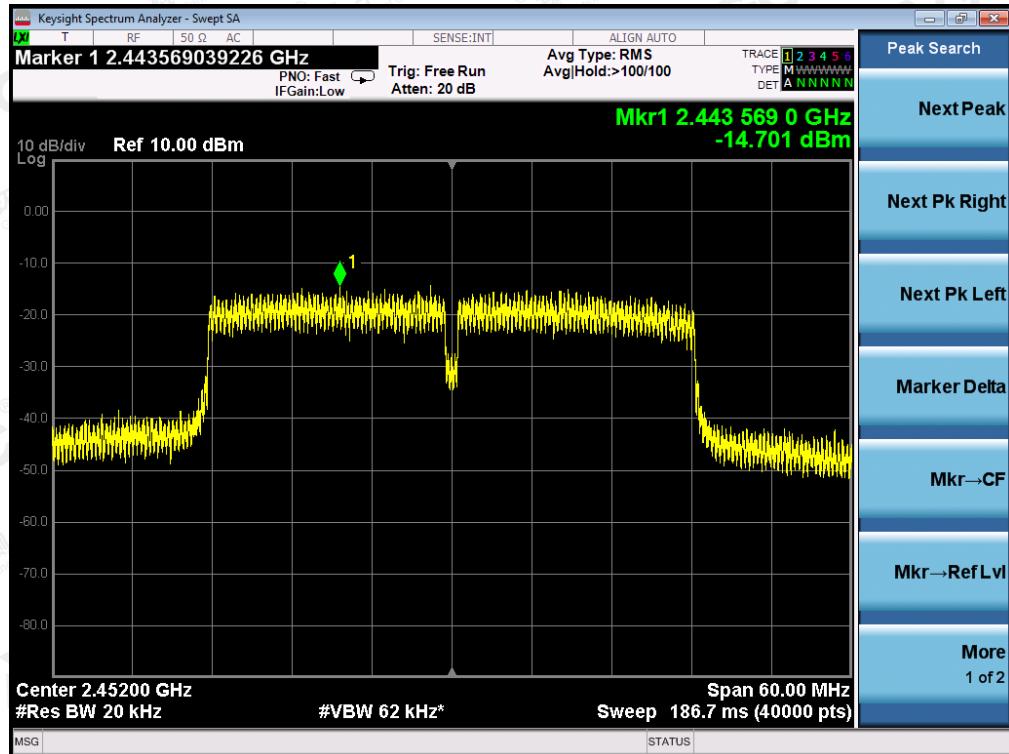
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

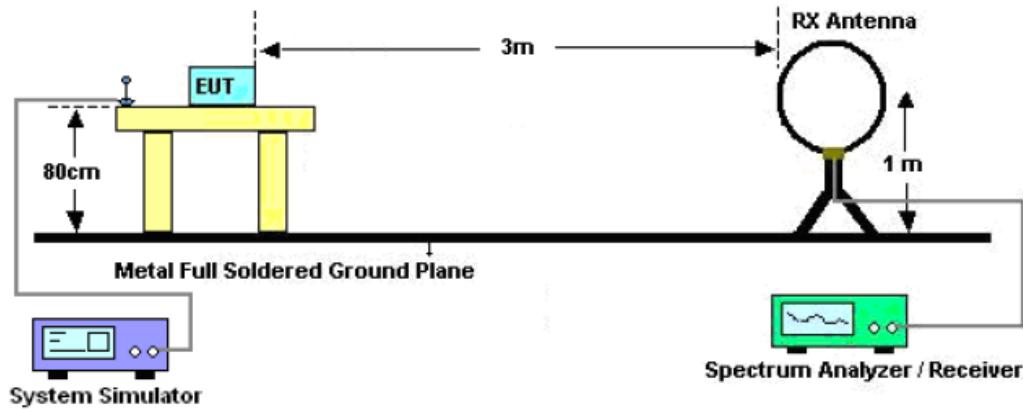
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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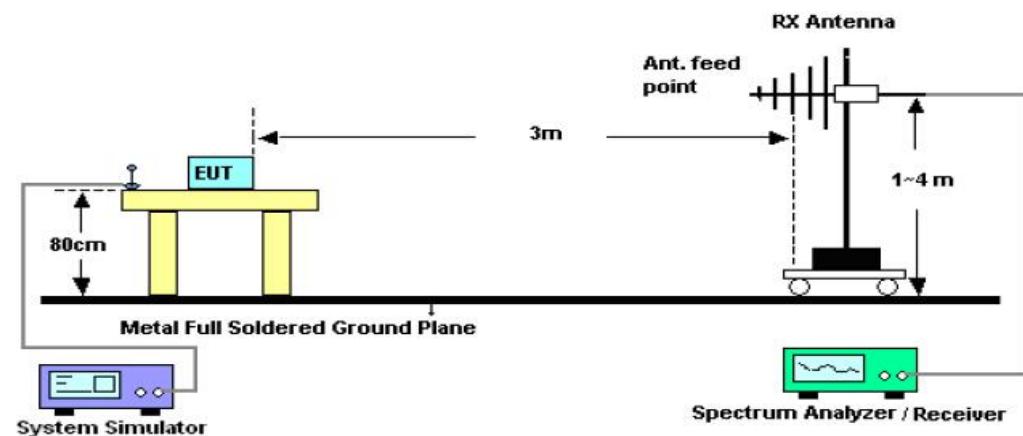


11.2. TEST SETUP

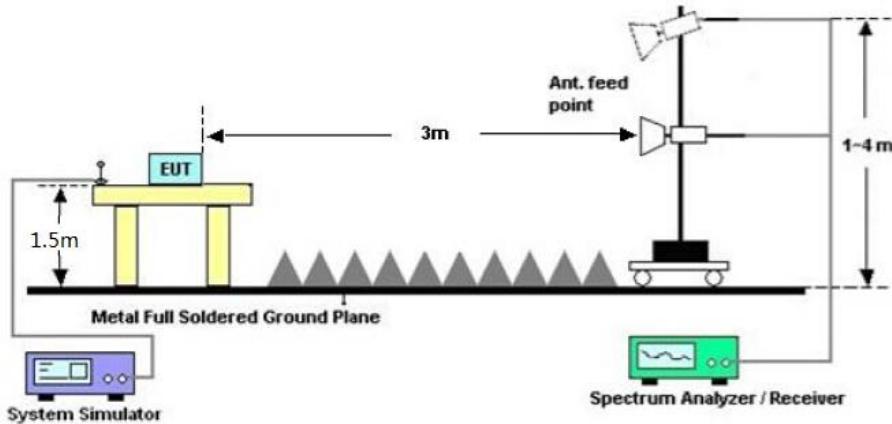
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHZ

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Horizontal |

66.9 dBuV/m



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna | Table | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|---------|--------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | Height | Degree | |
| 1 | * | 44.5500 | 24.75 | 11.60 | 36.35 | 40.00 | -3.65 | peak | | | |
| 2 | ! | 138.3167 | 24.97 | 14.41 | 39.38 | 43.50 | -4.12 | peak | | | |
| 3 | | 199.7500 | 24.64 | 11.99 | 36.63 | 43.50 | -6.87 | peak | | | |
| 4 | ! | 316.1500 | 24.55 | 16.49 | 41.04 | 46.00 | -4.96 | peak | | | |
| 5 | | 353.3333 | 16.15 | 18.76 | 34.91 | 46.00 | -11.09 | peak | | | |
| 6 | | 817.3167 | 2.45 | 27.32 | 29.77 | 46.00 | -16.23 | peak | | | |

RESULT: PASS

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Vertical |

66.9 dBuV/m



| No. | Mk | Freq. | Reading | Factor | Measurement | Limit | Over | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | degree | |
| 1 | * | 44.5500 | 26.73 | 8.60 | 35.33 | 40.00 | -4.67 | peak | | | |
| 2 | | 88.2000 | 30.79 | 4.74 | 35.53 | 43.50 | -7.97 | peak | | | |
| 3 | ! | 131.8500 | 26.60 | 11.80 | 38.40 | 43.50 | -5.10 | peak | | | |
| 4 | | 201.3667 | 26.06 | 9.13 | 35.19 | 43.50 | -8.31 | peak | | | |
| 5 | | 298.3667 | 20.36 | 15.36 | 35.72 | 46.00 | -10.28 | peak | | | |
| 6 | | 557.0333 | 5.21 | 22.52 | 27.73 | 46.00 | -18.27 | peak | | | |

RESULT: PASS
Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- The "Factor" value can be calculated automatically by software of measurement system.
- All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------------|--------|------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 4824.076 | 45.89 | 7.12 | 53.01 | 74 | -20.99 | peak |
| 4824.038 | 41.52 | 7.12 | 48.64 | 54 | -5.36 | AVG |
| 7236.025 | 42.14 | 9.84 | 51.98 | 74 | -22.02 | peak |
| 7236.095 | 38.23 | 9.84 | 48.07 | 54 | -5.93 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------------|--------|------------|
| (MHz) | (dB μ V) | (dB) | (dB μ V/m) | (dB μ V/m) | (dB) | |
| 4824.100 | 45.86 | 7.12 | 52.98 | 74 | -21.02 | peak |
| 4824.023 | 38.29 | 7.12 | 45.41 | 54 | -8.59 | AVG |
| 7236.025 | 42.87 | 9.84 | 52.71 | 74 | -21.29 | peak |
| 7236.089 | 36.92 | 9.84 | 46.76 | 54 | -7.24 | AVG |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Horizontal |

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Value Type |
|--------------------|-------------------------------|----------------|----------------------------------|--------------------------|----------------|------------|
| 4874.099 | 45.86 | 7.18 | 53.04 | 74 | -20.96 | peak |
| 4874.092 | 41.79 | 7.18 | 48.97 | 54 | -5.03 | AVG |
| 7311.046 | 40.68 | 9.86 | 50.54 | 74 | -23.46 | peak |
| 7311.073 | 38.56 | 9.86 | 48.42 | 54 | -5.58 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Vertical |

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Value Type |
|--------------------|-------------------------------|----------------|----------------------------------|--------------------------|----------------|------------|
| 4874.044 | 49.28 | 7.18 | 56.46 | 74 | -17.54 | peak |
| 4874.078 | 42.64 | 7.18 | 49.82 | 54 | -4.18 | AVG |
| 7311.026 | 41.86 | 9.86 | 51.72 | 74 | -22.28 | peak |
| 7311.099 | 37.21 | 9.86 | 47.07 | 54 | -6.93 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHZ | Antenna | Horizontal |

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Value Type |
|--------------------|-------------------------------|----------------|----------------------------------|--------------------------|----------------|------------|
| 4924.050 | 46.87 | 7.24 | 54.11 | 74 | -19.89 | peak |
| 4924.063 | 42.42 | 7.24 | 49.66 | 54 | -4.34 | AVG |
| 7386.055 | 45.79 | 9.92 | 55.71 | 74 | -18.29 | peak |
| 7386.030 | 38.31 | 9.92 | 48.23 | 54 | -5.77 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHZ | Antenna | Vertical |

| Frequency (MHz) | Meter Reading (dB μ V) | Factor (dB) | Emission Level (dB μ V/m) | Limits (dB μ V/m) | Margin (dB) | Value Type |
|--------------------|-------------------------------|----------------|----------------------------------|--------------------------|----------------|------------|
| 4924.089 | 45.68 | 7.24 | 52.92 | 74 | -21.08 | peak |
| 4924.115 | 36.83 | 7.24 | 44.07 | 54 | -9.93 | AVG |
| 7386.083 | 40.37 | 9.92 | 50.29 | 74 | -23.71 | peak |
| 7386.020 | 35.16 | 9.92 | 45.08 | 54 | -8.92 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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12.3. TEST RESULT

| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS

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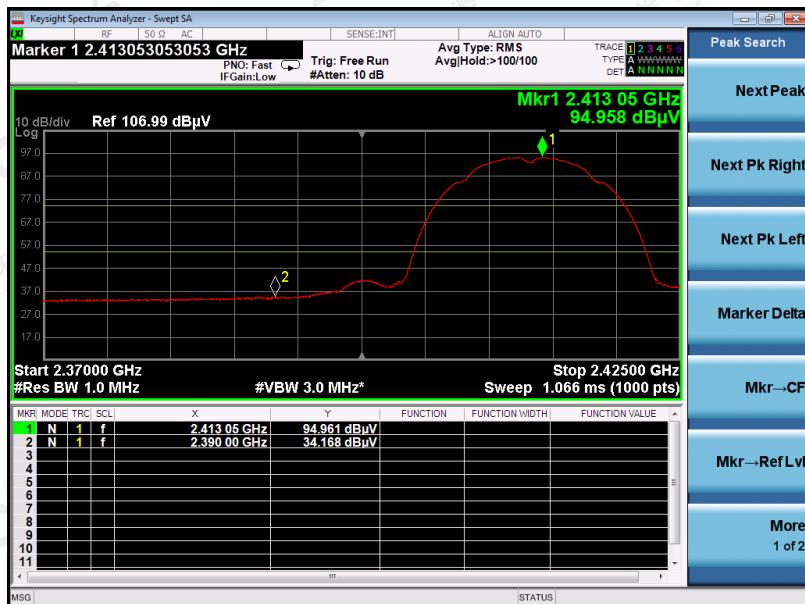
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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHz | Antenna | Vertical |

PK



AV



RESULT: PASS

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHz | Antenna | Horizontal |

PK



AV



RESULT: PASS

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Vertical |

PK



AV



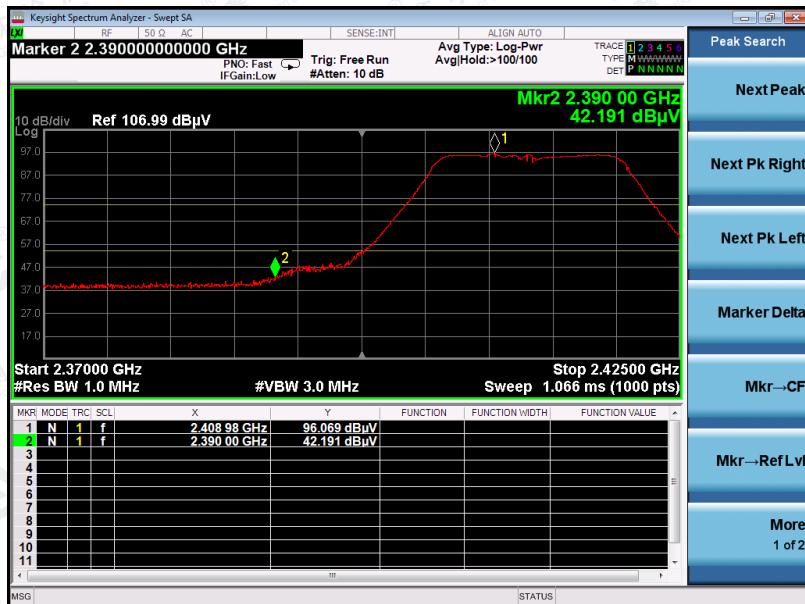
RESULT: PASS

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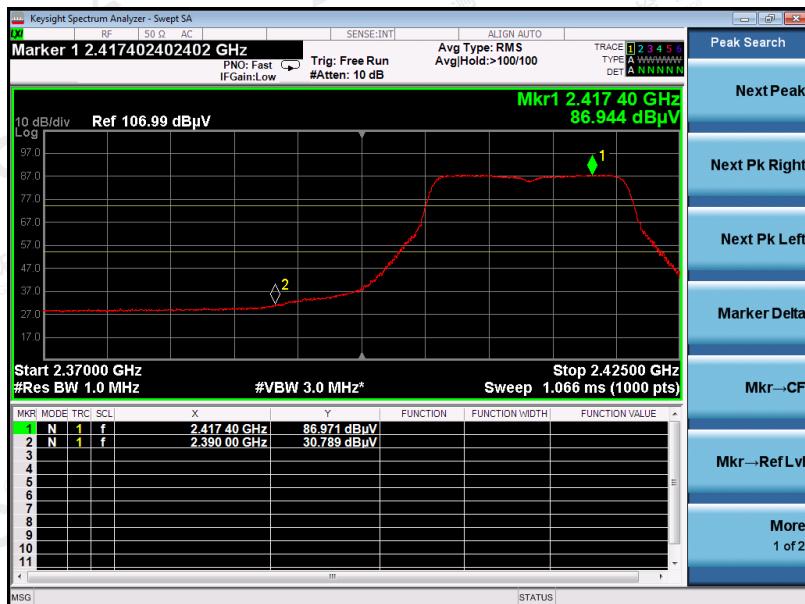


| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2412MHZ | Antenna | Horizontal |

PK



AV

**RESULT: PASS**

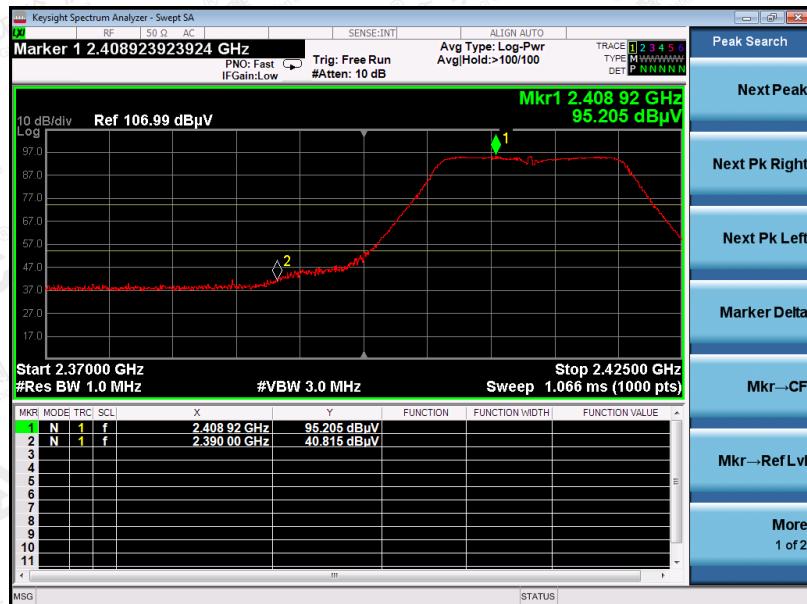
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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2412MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS

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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2462MHz | Antenna | Horizontal |

PK



AV

**RESULT: PASS**

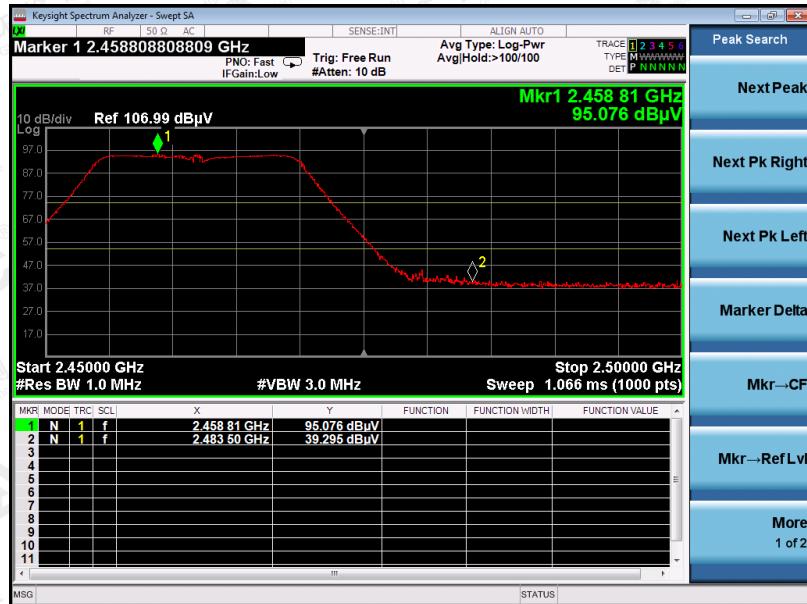
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



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| | | | |
|--------------------|-------------------------------------|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2462MHz | Antenna | Vertical |

PK



AV



RESULT: PASS

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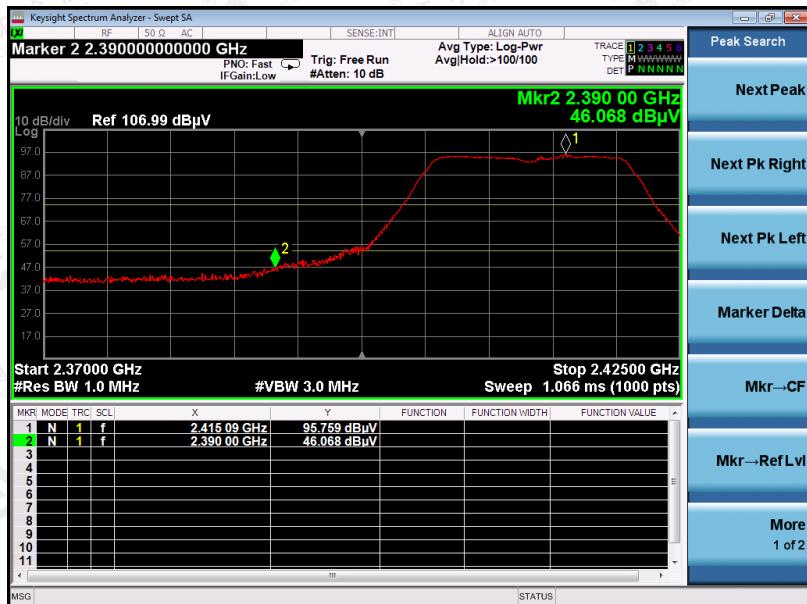


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| | | | |
|--------------------|--|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2412MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS

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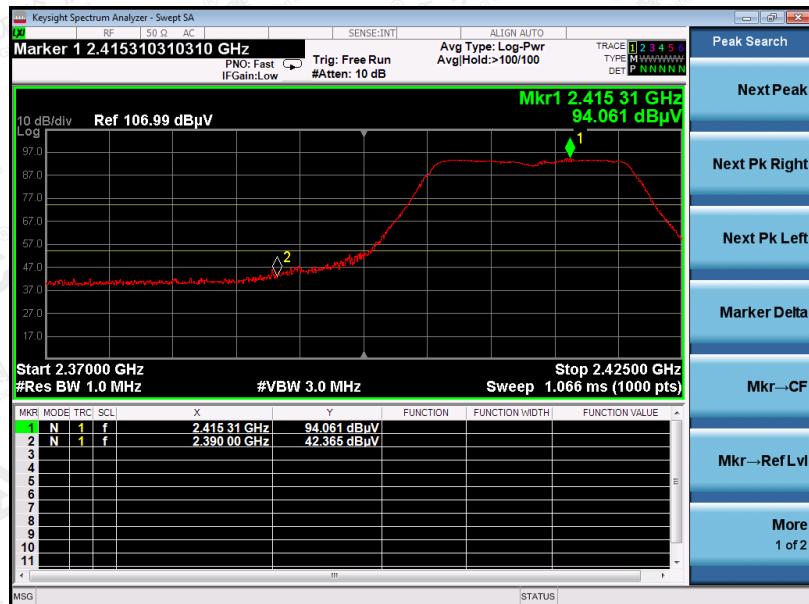


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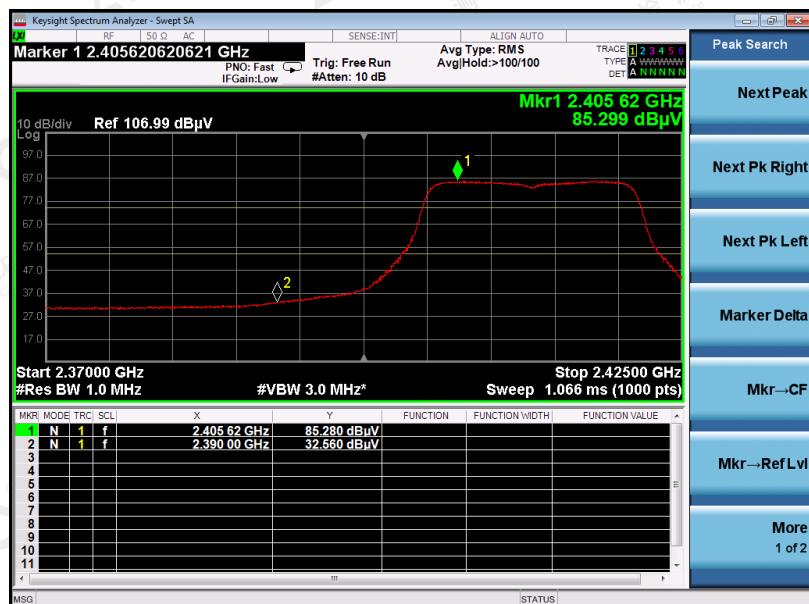
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| | | | |
|--------------------|--|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2412MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS

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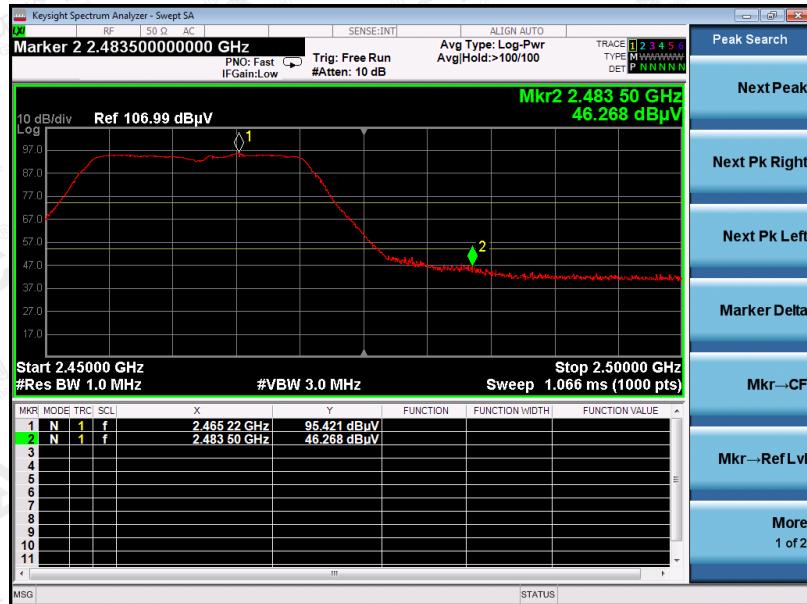


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| | | | |
|--------------------|--|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2462MHz | Antenna | Horizontal |

PK



AV



RESULT: PASS

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| | | | |
|--------------------|--|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2462MHz | Antenna | Vertical |

PK



AV



RESULT: PASS

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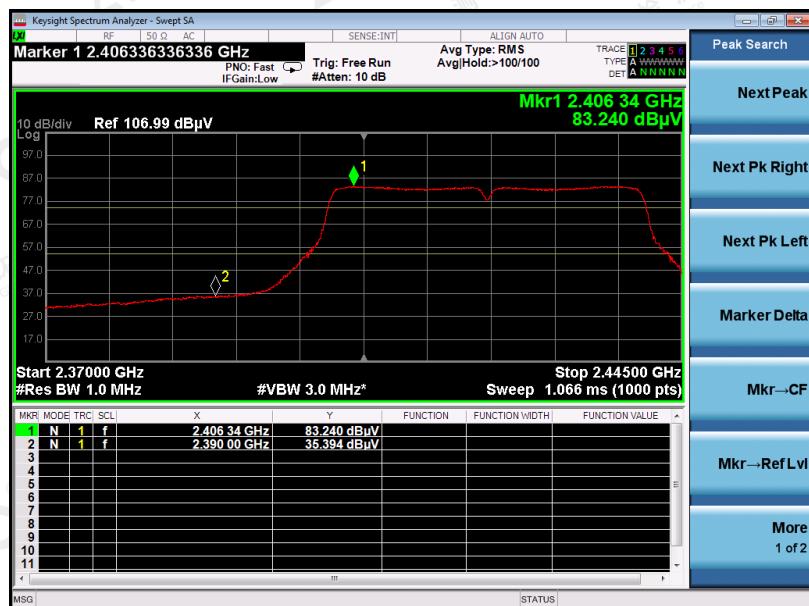
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| | | | |
|--------------------|---|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2422MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS

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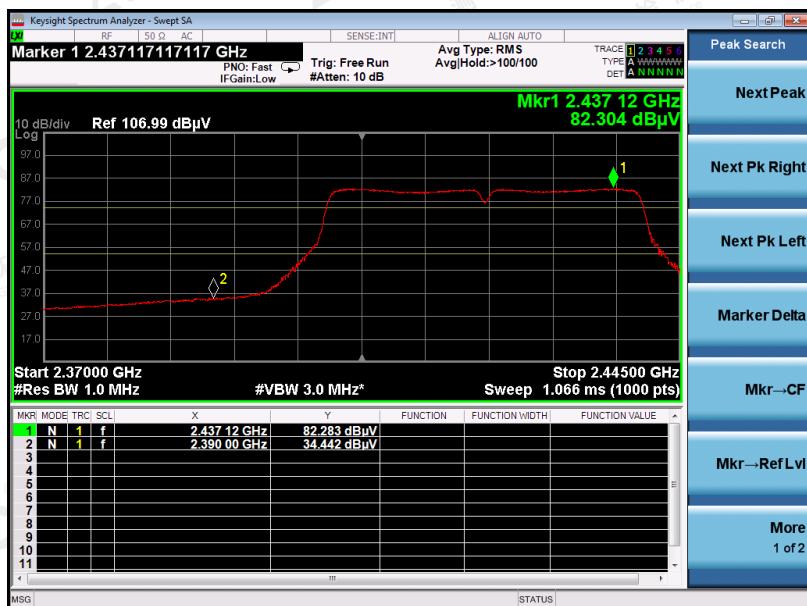
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| | | | |
|--------------------|---|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2422MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS

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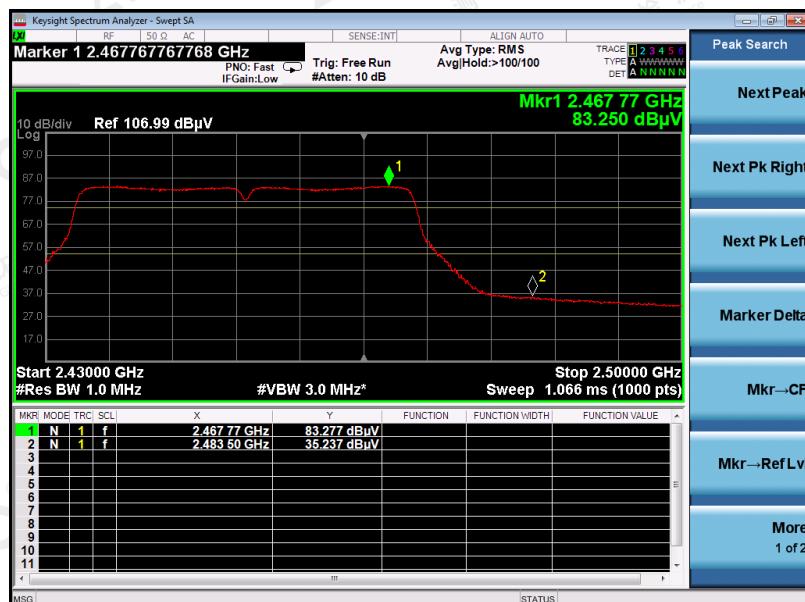
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| | | | |
|--------------------|--|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40with data rate 13.5 2452MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS

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| | | | |
|--------------------|---|--------------------------|----------------|
| EUT | Backup Camera | Model Name | ZURCBKUAL |
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2452MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS

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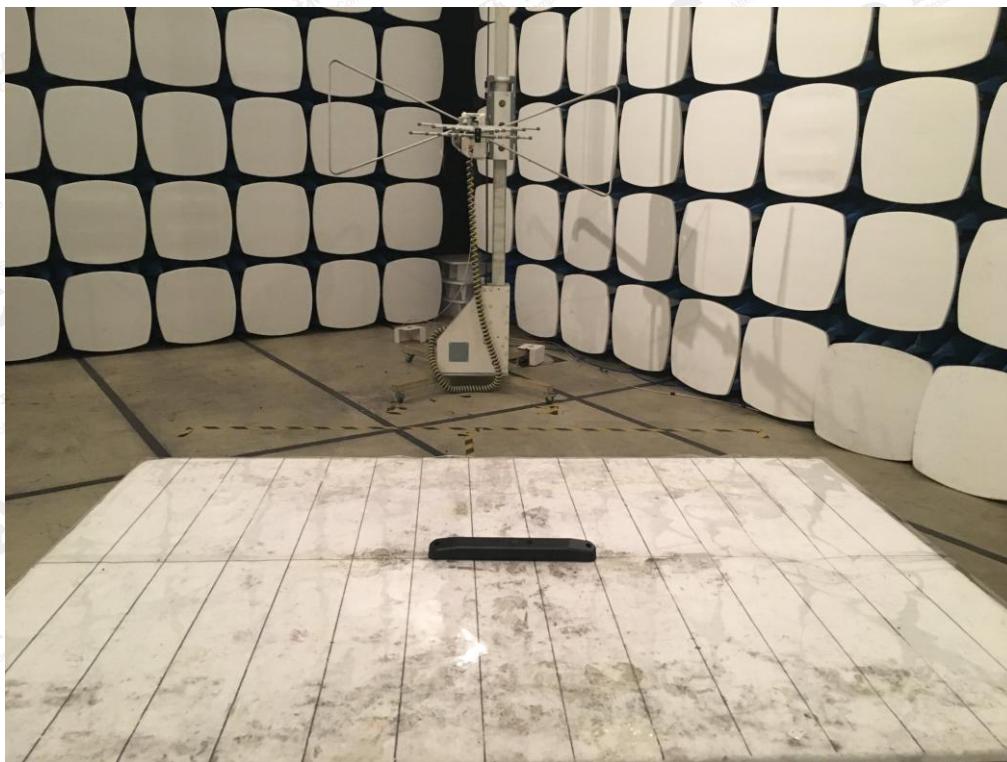


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



----END OF REPORT----

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