



CERTIFICATION TEST REPORT

Report Number. : 4789901731-FR4V2

Applicant : Kaonbroadband CO., LTD.
884-3, Seongnam-daero, Bundang-gu, Seongnam-si
Gyeonggi-do, South Korea

Model : AR1344P, AR1344, AR1344E, EVO6700AP

FCC ID : 2AXCW-AP6700

EUT Description : Wi-Fi Extender with DTS/UNII a/b/g/n/ac/ax

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:
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ACCREDITED

Testing Laboratory

TL-637

Revision History

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| V1 | 08/05/21 | Initial issue | Robby Lee |
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Kaonbroadband CO., LTD.
EUT DESCRIPTION: Wi-Fi Extender with DTS/UNII a/b/g/n/ac/ax
MODEL NUMBER: AR1344P, AR1344, AR1344E, EVO6700AP
SERIAL NUMBER: Proto type (CONDUCTED)
Proto type (RADIATED);
DATE TESTED: MAY 03, 2021 – AUG 05, 2021;

| APPLICABLE STANDARDS | |
|--------------------------|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 Part 15 Subpart E | Pass |

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:

Tested By:



Anthony Kim
Suwon Lab Engineer
UL Korea, Ltd.

Robby Lee
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. KDB 789033 D02 General UNII Test Procedures New Rules v02r01
4. ANSI C63.10-2013.
5. KDB 662911 D01 v02r01

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 218 Maeyeong-ro | |
|-------------------------------------|-----------|
| <input checked="" type="checkbox"/> | Chamber 1 |
| <input type="checkbox"/> | Chamber 2 |
| <input checked="" type="checkbox"/> | Chamber 3 |

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

UL Korea, Ltd. is accredited by National Radio Research Agency, Designation Number KR0161, for all testing performed within the scope of this report.

| ISED CABID | ISED Company Number | FCC Registration |
|------------|---------------------|------------------|
| KR0161 | 2324L | 644529 |

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 28.9 \text{ dBuV/m} &= 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|--|-------------|
| Conducted Disturbance, 0.15 to 30 MHz | 2.87 dB |
| Radiated Disturbance, 30 MHz to 1 GHz | 3.49 dB |
| Radiated Disturbance, 1 GHz to 18 GHz | 5.82 dB |
| Radiated Disturbance, 18 GHz to 40 GHz | 5.49 dB |

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Accuracy Method specified in Procedure 2, Clause 4.4.3 in IEC Guide 115:2007.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Wi-Fi Extender with DTS/UNII a/b/g/n/ac/ax.
 This test report addresses the 802.11ax WLAN (UNII) operational mode.

This report covers the models AR1344P and AR1344, AR1344E, EVO6700AP
 The difference between these models is only the momory size.

| Model | Memory size |
|--------------------|------------------------------------|
| AR1344P, EVO6700AP | 256MB/512MB (FLASH MEMORY / SDRAM) |
| AR1344, AR1344E | 128MB/256MB (FLASH MEMORY / SDRAM) |

The model AR1344P was set for final test.

WiFi Operating mode

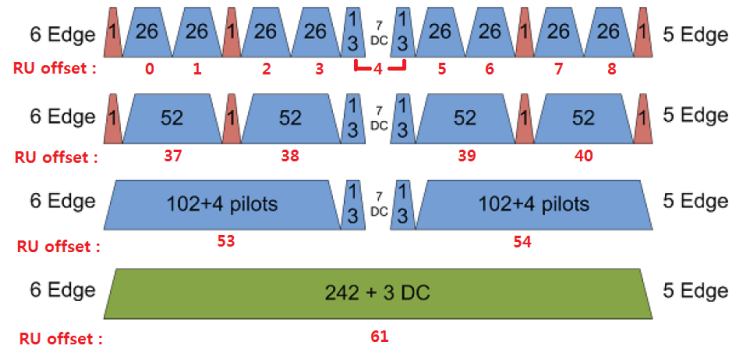
| Frequency rage | Mode | Antenna 1 | Antenna 2 | Antenna 3 | Antenna 4 |
|----------------------------------|---------------------|-----------|-----------|-----------|-----------|
| 5GHz (5180 MHz ~ 5825 MHz) | 802.11ax(HE20) SISO | TX/RX | TX/RX | TX/RX | TX/RX |
| | 802.11ax(HE20) MIMO | TX/RX | TX/RX | TX/RX | TX/RX |
| | 802.11ax(HE40) SISO | TX/RX | TX/RX | TX/RX | TX/RX |
| | 802.11ax(HE40) MIMO | TX/RX | TX/RX | TX/RX | TX/RX |
| | 802.11ax(HE80) SISO | TX/RX | TX/RX | TX/RX | TX/RX |
| | 802.11ax(HE80) MIMO | TX/RX | TX/RX | TX/RX | TX/RX |

Simultaneous TX Condition

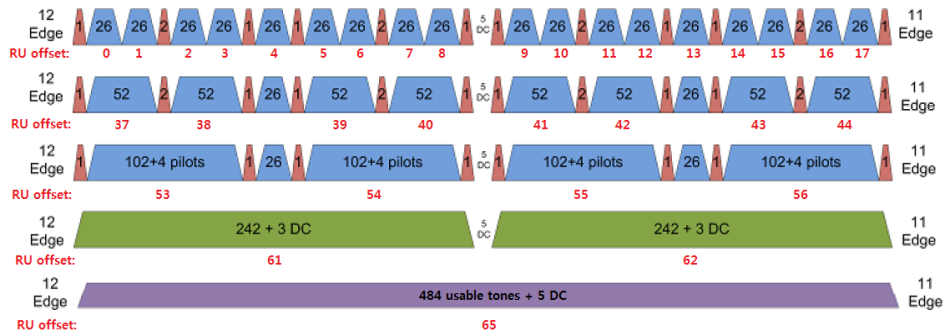
Simultaneous Tx Condition - RSDB

| Mode | # of TX | 5GHz WLAN | | 2.4GHz WLAN | | Test Case |
|----------------------------|---------|-----------|------|-------------|------|-----------|
| | | ANT1 | ANT2 | ANT1 | ANT2 | |
| 2.4GHz + 5GHz RSDB MIMO | 4 | ○ | ○ | ○ | ○ | ○ |

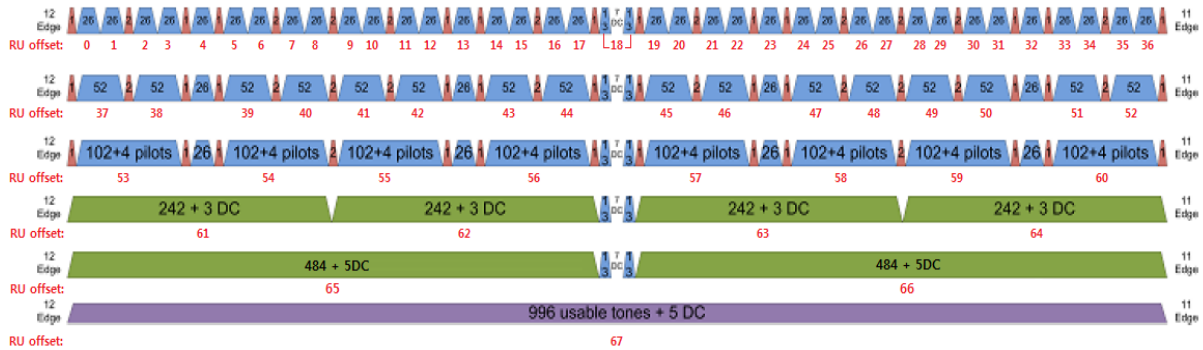
802.11ax RU allocations



- HE 20 Mode -



- HE 40 Mode -



- HE 80 Mode -

- HE 160 Mode (80 MHz + 80 MHz) -

Test RU offset for tones in each modes

| Mode | Tones | RU offset |
|-----------------------------|--------|-----------|
| HE20 | 26T | 0 |
| | | 4 |
| | | 8 |
| | 52T | 37 |
| | | 38 |
| | | 40 |
| | 106T | 53 |
| | | 54 |
| 242T / SU ^{Note 1} | 61 / - | |
| HE40 | 26T | 0 |
| | | 9 |
| | | 17 |
| | 52T | 37 |
| | | 41 |
| | | 44 |
| | 106T | 53 |
| | | 54 |
| | | 56 |
| | 242T | 61 |
| | | 62 |
| 484T / SU ^{Note 1} | 63 / - | |
| HE80 | 26T | 0 |
| | | 18 |
| | | 36 |
| | 52T | 37 |
| | | 45 |
| | | 52 |
| | 106T | 53 |
| | | 57 |
| | | 60 |
| | 242T | 61 |
| | | 62 |
| | | 64 |
| | 484T | 65 |
| | | 66 |
| 996T / SU ^{Note 1} | 67 / - | |
| HE160 | Note 2 | |

Note1: Full RU(Resource Unit) mode and SU(Single Unit) mode have no difference in physical waveform. This report has been reported the SU mode with highest output power in SISO and the SU mode with highest output power in MIMO.

Note2: It is used by being bonded to 80MHz + 80MHz, and refer to 80MHz for RU index configuration.

Band portion of RU allocation about straddle channels

| Mode | Channel | Tones | RU offset | Portion |
|------|----------------------|-----------|-----------|------------------|
| HE20 | Straddle 5720 MHz | 26T | 4 | UNII 2C & UNII 3 |
| | | 242T / SU | 61 / - | |
| HE40 | Straddle 5710 MHz | 26T | 9 | UNII 2C & UNII 3 |
| | | 484T / SU | 65 / - | |
| HE80 | Straddle 5690 MHz | 26T | 18 | UNII 2C & UNII 3 |
| | | 996T / SU | 67 / - | |

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted average output power as follows:

| Frequency Range [MHz] | Mode | Output Power [dBm] | | | | Output Power [mW] | | | |
|-----------------------|-----------------------|--------------------|-------|-------|-------|-------------------|-------|-------|-------|
| | | ANT1 | ANT2 | ANT3 | ANT4 | ANT1 | ANT2 | ANT3 | ANT4 |
| 5180 - 5240 | 802.11ax HE20 SISO | 19.67 | 19.76 | 19.03 | 19.69 | 92.68 | 94.62 | 79.98 | 93.11 |
| | 802.11ax HE20 MIMO | 18.14 | | | | 65.16 | | | |
| 5190 - 5230 | 802.11ax HE40 SISO | 18.36 | 18.47 | 18.18 | 18.59 | 68.55 | 70.31 | 65.77 | 72.28 |
| | 802.11ax HE40 MIMO | 19.71 | | | | 93.54 | | | |
| 5210 | 802.11ax HE80 SISO | 16.25 | 14.55 | 16.67 | 13.89 | 42.17 | 28.51 | 46.45 | 24.49 |
| | 802.11ax HE80 MIMO | 18.60 | | | | 72.44 | | | |
| 5250 | 802.11ax(VHT160) SISO | 16.23 | 14.45 | 14.45 | 13.54 | 41.98 | 27.86 | 27.86 | 22.59 |
| | 802.11ax(VHT160) MIMO | 18.52 | | | | 71.12 | | | |
| 5260 - 5320 | 802.11ax HE20 SISO | 18.62 | 18.46 | 18.75 | 18.49 | 72.78 | 70.15 | 74.99 | 70.63 |
| | 802.11ax HE20 MIMO | 19.59 | | | | 90.99 | | | |
| 5270 - 5310 | 802.11ax HE40 SISO | 17.56 | 17.46 | 17.56 | 18.38 | 57.02 | 55.72 | 57.02 | 68.87 |
| | 802.11ax HE40 MIMO | 15.69 | | | | 37.07 | | | |
| 5290 | 802.11ax HE80 SISO | 16.42 | 14.37 | 16.40 | 16.39 | 43.85 | 27.35 | 43.65 | 43.55 |
| | 802.11ax HE80 MIMO | 18.22 | | | | 66.37 | | | |
| 5500 - 5720 | 802.11ax HE20 SISO | 17.64 | 17.44 | 17.41 | 16.57 | 58.08 | 55.46 | 55.08 | 45.39 |
| | 802.11ax HE20 MIMO | 19.29 | | | | 84.92 | | | |
| 5510 - 5710 | 802.11ax HE40 SISO | 17.57 | 17.44 | 17.45 | 17.41 | 57.15 | 55.46 | 55.59 | 55.08 |
| | 802.11ax HE40 MIMO | 20.63 | | | | 115.61 | | | |
| 5530 - 5690 | 802.11ax HE80 SISO | 17.26 | 16.50 | 16.34 | 15.77 | 53.21 | 44.67 | 43.05 | 37.74 |
| | 802.11ax HE80 MIMO | 17.26 | | | | 53.21 | | | |
| 5570 | 802.11ax(VHT160) SISO | 14.64 | 14.42 | 14.48 | 13.36 | 29.11 | 27.67 | 28.05 | 21.68 |
| | 802.11ax(VHT160) MIMO | 19.24 | | | | 83.95 | | | |
| 5745 - 5825 | 802.11ax HE20 SISO | 19.67 | 19.67 | 19.52 | 19.46 | 92.68 | 92.68 | 89.54 | 88.31 |
| | 802.11ax HE20 MIMO | 23.68 | | | | 233.35 | | | |
| 5755 - 5795 | 802.11ax HE40 SISO | 18.46 | 18.35 | 17.43 | 19.52 | 70.15 | 68.39 | 55.34 | 89.54 |
| | 802.11ax HE40 MIMO | 23.55 | | | | 226.46 | | | |
| 5775 | 802.11ax HE80 SISO | 18.41 | 18.54 | 16.39 | 19.43 | 69.34 | 71.45 | 43.55 | 87.70 |
| | 802.11ax HE80 MIMO | 22.50 | | | | 177.83 | | | |

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**The internal antenna was Permanently attached.
 Therefore this E.U.T Complies with the requirement of §15.203.**

The radio utilizes a internal antenna, with a maximum gain of:

| Frequency Band [MHz] | ANT1 Gain [dBi] | ANT2 Gain [dBi] | ANT3 Gain [dBi] | ANT4 Gain [dBi] | Correlated Chains Directional Gain [dBi] |
|------------------------|-----------------|-----------------|-----------------|-----------------|--|
| UNII 1 5150 - 5250 | 1.98 | 1.98 | 1.98 | 1.98 | 8.00 |
| UNII 2A 5250 - 5350 | 1.97 | 1.97 | 1.97 | 1.97 | 7.99 |
| UNII 2C 5470 - 5725 | 1.94 | 1.94 | 1.94 | 1.94 | 7.96 |
| UNII 3 5725 - 5850 | 1.86 | 1.86 | 1.86 | 1.86 | 7.88 |

5.4. List of test reduction and modes covering other modes:

The output power on covered modes is equal to or less than one referenced.

| Authorized Frequency Band | | | |
|---------------------------|----------------|----------------------------------|-----------------------|
| Mode | Antenna Stream | Mode | Covered by |
| 802.11ax HE 20 | SISO | 802.11ax HE20 RU(242T) 1TX | 802.11ax HE20 SU 1TX |
| | MIMO | 802.11ax HE20 RU(242T) 4TX | 802.11ax HE20 SU 4TX |
| 802.11ax HE 40 | SISO | 802.11ax HE40 RU(484T) 1TX | 802.11ax HE40 SU 1TX |
| | MIMO | 802.11ax HE40 RU(484T) 4TX | 802.11ax HE40 SU 4TX |
| 802.11ax HE 80 | SISO | 802.11ax HE80 RU(996T) 1TX | 802.11ax HE80 SU 1TX |
| | MIMO | 802.11ax HE80 RU(996T) 4TX | 802.11ax HE80 SU 4TX |
| 802.11ax HE 160 | SISO | 802.11ax HE160 RU(996T+996T) 1TX | 802.11ax HE160 SU 1TX |
| | MIMO | 802.11ax HE160 RU(996T+996T) 4TX | 802.11ax HE160 SU 4TX |

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emission below 1 GHz and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Radiated emission above 1 GHz was performed with the EUT set to transmit low/mid/high channels.

For UNII-1, radiated emission tests were performed with higher power than reported power.

For SISO, the fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z, it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

For MIMO, the fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z, it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

Worst-case selection criteria for test items :

- For the radiated band-edge test, the test data for RU was only reported in this test report because SU mode is same with 802.11n/ac mode. And the PSD of 26RU is highest across all RU tones.
- For the spurious emissions, it was tested at the bandwidth/RU allocation with highest power and bandwidth/RU allocation with highest PSD for each bandwidth.
(The test data for RU was only reported in this test report because SU mode is same or lower than n/ac mode. And the PSD of 26RU is highest across all RU tones)
Partial RU allocations(26RU) are the same across all channels and share the same nominal output power. Therefore testing are performed once to cover the equivalent RU allocation across all channel bandwidths.
- For the spurious emissions, all bandwidth were investigated, test result of 802.11ax HE20 were worst case. so the test data for 802.11ax HT20 mode were only reported in this test report.
- For the 6dB Bandwidth, it was tested at the RU allocation with lowest tones number for each bandwidth.

Based on the baseline scan, the worst-case data rates were:

802.11ax HE20 mode: MCS0 1Tx/4Tx
802.11ax HE40 mode: MCS0 1Tx/4Tx
802.11ax HE80 mode: MCS0 1Tx/4Tx
802.11ax HE160 mode: MCS0 1Tx/4Tx

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Support Equipment List | | | | |
|------------------------------|-----------------------------|-------------------|---------------|--------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| Switching mode Power Adaptor | CHENZHOU FRECOM ELECTRONICS | F18L16-120150SPAU | N/A | N/A |

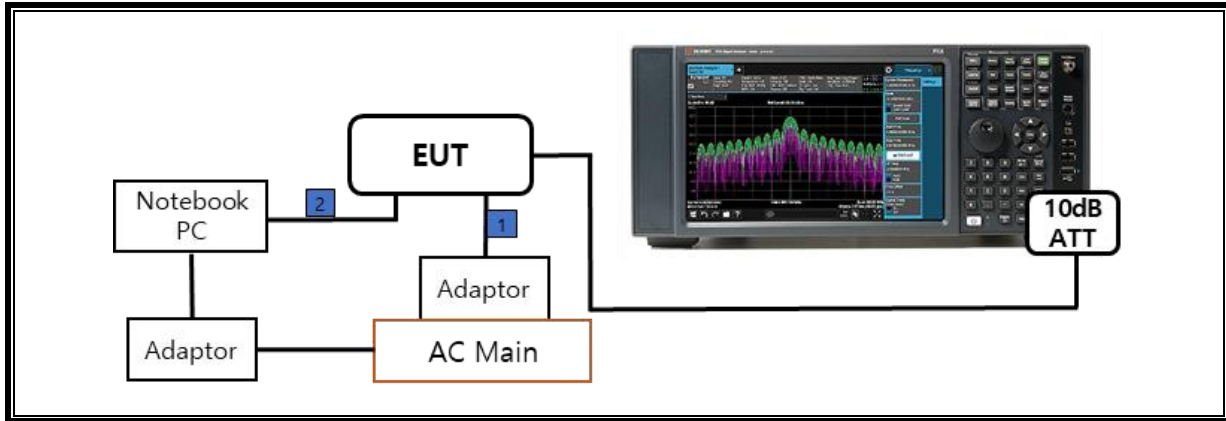
I/O CABLE

| I/O Cable List | | | | | | |
|----------------|----------|----------------------|----------------|------------|------------------|---------|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | DC Power | 1 | Pin | Shielded | 1.5m | N/A |
| 2 | LAN | 2 | RJ-45 | Shielded | 2.0m | N/A |

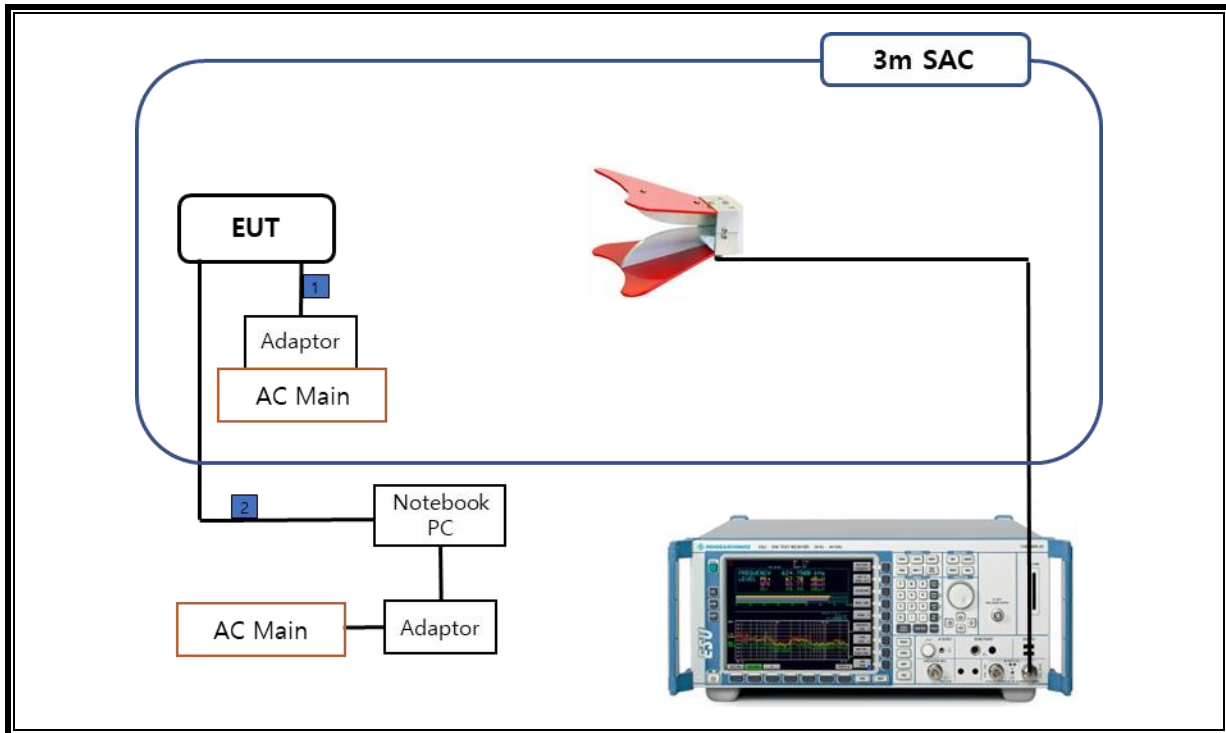
TEST SETUP

The EUT is a stand-alone unit during the tests.
 Test software exercised the EUT to enable NII mode.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Test Equipment List | | | | |
|-----------------------------|---------------|------------------------|--------------|------------|
| Description | Manufacturer | Model | S/N | Cal Due |
| Antenna, Bilog, 30MHz-1GHz | SCHWARZBECK | VULB9163 | 750 | 2022-08-19 |
| Antenna, Bilog, 30MHz-1GHz | SCHWARZBECK | VULB9163 | 749 | 2022-08-13 |
| Antenna, Bilog, 30MHz-1GHz | SCHWARZBECK | VULB9163 | 845 | 2022-08-13 |
| Antenna, Horn, 18 GHz | ETS | 3115 | 00167211 | 2022-07-27 |
| Antenna, Horn, 18 GHz | ETS | 3115 | 00161451 | 2022-08-15 |
| Antenna, Horn, 18 GHz | ETS | 3117 | 00168724 | 2022-07-27 |
| Antenna, Horn, 18 GHz | ETS | 3117 | 00168717 | 2022-08-15 |
| Antenna, Horn, 18 GHz | ETS | 3117 | 00218957 | 2023-01-15 |
| Antenna, Horn, 40 GHz | ETS | 3116C | 00166155 | 2023-01-15 |
| Antenna, Horn, 40 GHz | ETS | 3116C | 00168645 | 2021-10-02 |
| Preamplifier | ETS | 3116C-PA | 00168841 | 2021-08-06 |
| Preamplifier, 1000 MHz | Sonoma | 310N | 341282 | 2021-08-03 |
| Preamplifier, 1000 MHz | Sonoma | 310N | 351741 | 2021-08-03 |
| Preamplifier, 1000 MHz | Sonoma | 310N | 370599 | 2021-08-06 |
| Preamplifier, 18 GHz | Miteq | AFS42-00101800-25-S-42 | 1876511 | 2021-08-03 |
| Preamplifier, 18 GHz | Miteq | AFS42-00101800-25-S-42 | 1896138 | 2021-08-03 |
| Preamplifier, 18 GHz | Miteq | AFS42-00101800-25-S-42 | 2029169 | 2021-08-04 |
| Spectrum Analyzer, 43.5 GHz | R&S | FSW43 | 104089 | 2021-08-06 |
| Spectrum Analyzer, 44 GHz | KEYSIGHT | N9030B | MY60070693 | 2021-09-15 |
| Spectrum Analyzer, 44 GHz | KEYSIGHT | N9030B | MY57143717 | 2022-01-13 |
| *Spectrum Analyzer, 44 GHz | KEYSIGHT | N9030B | MY57143652 | 2022-01-13 |
| EMI Test Receiver, 44 GHz | R&S | ESW44 | 101590 | 2021-08-04 |
| Average Power Sensor | Agilent / HP | U2000 | MY54270007 | 2021-08-05 |
| Power Sensor | R&S | NRP-Z91 | 102681 | 2021-08-05 |
| Attenuator | PASTERNAK | PE7087-10 | A001 | 2021-08-03 |
| Attenuator | PASTERNAK | PE7087-10 | A008 | 2021-08-03 |
| Attenuator | PASTERNAK | PE7004-10 | 2 | 2021-08-04 |
| Attenuator | PASTERNAK | PE7087-10 | A009 | 2021-08-05 |
| *Attenuator | WEINSCHTEL | 54A-10 | 74560 | 2021-08-07 |
| EMI Test Receive, 40 GHz | R&S | ESU40 | 100439 | 2021-08-03 |
| EMI Test Receive, 40 GHz | R&S | ESU40 | 100457 | 2021-08-03 |
| EMI Test Receive, 3 GHz | R&S | ESR3 | 101832 | 2021-08-03 |
| EMI Test Receive, 3 GHz | R&S | ESR3 | 102592 | 2021-08-06 |
| Low Pass Filter 5GHz | Micro-Tronics | LPS17541 | 009 | 2021-08-03 |
| Low Pass Filter 5GHz | Micro-Tronics | LPS17541 | 015 | 2021-08-03 |
| Low Pass Filter 5GHz | Micro-Tronics | LPS17541 | 020 | 2021-08-04 |
| High Pass Filter 3GHz | Micro-Tronics | HPM17543 | 010 | 2021-08-03 |
| High Pass Filter 3GHz | Micro-Tronics | HPM17543 | 015 | 2021-08-03 |
| High Pass Filter 3GHz | Micro-Tronics | HPM17543 | 020 | 2021-08-04 |
| High Pass Filter 6GHz | Micro-Tronics | HPS17542 | 009 | 2021-08-03 |
| High Pass Filter 6GHz | Micro-Tronics | HPS17542 | 016 | 2021-08-03 |
| High Pass Filter 6GHz | Micro-Tronics | HPS17542 | 021 | 2021-08-04 |
| LISN | R&S | ENV-216 | 101837 | 2021-08-06 |
| LISN | R&S | ENV216 | 102478 | 2021-08-07 |
| OPEN SWITCH AND CONTROL | R&S | OSP220 | 101437 | N/A |
| Antenna, Loop, 9kHz-30MHz | R&S | HFH2-Z2 | 100418 | 2021-10-02 |
| Termination | WEINSCHTEL | M1406A | T01 | 2021-08-05 |
| Attenuator | WEINSCHTEL | WA76-30-21 | A015 | 2021-08-05 |
| UL Software | | | | |
| Description | Manufacturer | Model | Version | |
| Radiated software | UL | UL EMC | Ver 9.5 | |
| AC Line Conducted software | R&S | EMC32 | Ver 10.60.10 | |
| AC Line Conducted software | UL | UL EMC | Ver 9.5 | |

Note: On August 5, only equipment marked with an asterisk(*) was used.

7. SUMMARY TABLE

| FCC Part Section | Test Description | Test Limit | Test Condition | Test Result |
|---------------------|--|-----------------------------|----------------------|--|
| 15.407 (a) | Emission Bandwidth (26dB Bandwidth) | N/A | Conducted | N/A |
| 15.407(e) | 6dB Band width (5.8Ghz) | 500 kHz | | PASS |
| 15.407 (a)(2) | TX Cond. Power 5.15-2.25, 5.25-5.35 & 5.47-5.725 | <24dBm or 11+10Log(26dB BW) | | PASS |
| 15.407 (a)(3) | TX Cond. Power 5.725-5.825 | < 30dBm | | PASS |
| 15.407 (a)(5) | PSD (5.2,5.3,5.5GHz) | <11dBm | | PASS |
| 15.407 (a)(5) | PSD (5.8GHz) | 30dBm per 500 kHz | | PASS |
| 15.207 (a) | AC Power Line conducted emissions | Section 10 | Power Line Conducted | Refer to the UNII 802.11a_n_ac WLAN Test report (No.:4789901731-FR3) |
| 15.407 (b) & 15.209 | Radiated Spurious Emission | < 54dBuV/m | Radiated | PASS |
| 15.407 (h)(2) | Dynamic Frequency Selection | N/A | | Refer to the UNII WLAN DFS Test report (No.:13785976-E1) |

8. MEASUREMENT METHODS

On-Time and Duty Cycle : KDB 789033 D02 v02r01, Section II.B.

6dB Emission BW : KDB 789033 D02 v02r01, Section II.C.2.

26dB Emission BW : KDB 789033 D02 v02r01, Section II.C.1.

99% Occupied BW : KDB 789033 D02 v02r01, Section II.D.

Conducted Output Power : KDB 789033 D02 v02r01, Section II.E.3.b(Method PM-G)

Conducted Output Power for Straddle Channel (ch144/142/138 for 20/40/80MHz BW):
KDB 789033 D02 v02r01, Section II.E.2.b(Method SA-1)

Power Spectral Density : KDB 789033 D02 v02r01, Section II.F.

Unwanted emissions in restricted bands : KDB 789033 D02 v02r01, Section II.G.3 – II.G.6.

Unwanted emissions in non-restricted bands : KDB 789033 D02 v02r01, Section II.G.3 – II.G.6.

AC Power Line Conducted Emission : ANSI C63.10-2013, Section 6.2.

9. REFERENCE MEASUREMENTS RESULTS

9.1. ON TIME AND DUTY CYCLE RESULTS

| Mode | ANT | Tone | On Time [ms] | Period [ms] | Duty Cycle X [Linear] | Duty Cycle X [%] | Duty Cycle Correction Factor [dB] |
|-------------------|-----------|-------|--------------|-------------|-----------------------|------------------|-----------------------------------|
| 802.11ax HE20 | Single | 26T | 3.082 | 3.115 | 0.99 | 98.94 | 0.00 |
| | | 52T | 2.944 | 2.977 | 0.99 | 98.89 | 0.00 |
| | | 106T | 2.863 | 2.897 | 0.99 | 98.83 | 0.00 |
| | | 242T | 2.815 | 2.849 | 0.99 | 98.81 | 0.00 |
| | | SU | 3.311 | 3.342 | 0.99 | 99.07 | 0.00 |
| | ALL | 26T | 3.082 | 3.114 | 0.99 | 98.97 | 0.00 |
| | | 52T | 2.945 | 2.977 | 0.99 | 98.93 | 0.00 |
| | | 106T | 2.863 | 2.897 | 0.99 | 98.83 | 0.00 |
| | | 242T | 2.815 | 2.849 | 0.99 | 98.81 | 0.00 |
| | | SU | 3.312 | 3.342 | 0.99 | 99.10 | 0.00 |
| 802.11ax HE40 | Single | 26T | 3.085 | 3.118 | 0.99 | 98.94 | 0.00 |
| | | 52T | 2.944 | 2.977 | 0.99 | 98.89 | 0.00 |
| | | 106T | 2.863 | 2.897 | 0.99 | 98.83 | 0.00 |
| | | 242T | 2.816 | 2.849 | 0.99 | 98.84 | 0.00 |
| | | 484T | 2.801 | 2.836 | 0.99 | 98.77 | 0.00 |
| | SU | 2.500 | 2.530 | 0.99 | 98.81 | 0.00 | |
| | ALL | 26T | 3.090 | 3.123 | 0.99 | 98.94 | 0.00 |
| | | 52T | 2.945 | 2.977 | 0.99 | 98.93 | 0.00 |
| | | 106T | 2.863 | 2.897 | 0.99 | 98.83 | 0.00 |
| | | 242T | 2.816 | 2.849 | 0.99 | 98.84 | 0.00 |
| 484T | | 2.802 | 2.834 | 0.99 | 98.87 | 0.00 | |
| SU | 2.499 | 2.529 | 0.99 | 98.81 | 0.00 | | |
| 802.11ax HE80 | Single | 26T | 3.078 | 3.112 | 0.99 | 98.91 | 0.00 |
| | | 52T | 2.980 | 2.981 | 1.00 | 99.97 | 0.00 |
| | | 106T | 2.867 | 2.901 | 0.99 | 98.83 | 0.00 |
| | | 242T | 2.820 | 2.853 | 0.99 | 98.84 | 0.00 |
| | | 484T | 2.806 | 2.840 | 0.99 | 98.80 | 0.00 |
| | 996T | 2.806 | 2.838 | 0.99 | 98.87 | 0.00 | |
| | SU | 2.466 | 2.499 | 0.99 | 98.68 | 0.00 | |
| | ALL | 26T | 3.078 | 3.110 | 0.99 | 98.97 | 0.00 |
| | | 52T | 2.948 | 2.981 | 0.99 | 98.89 | 0.00 |
| | | 106T | 2.867 | 2.901 | 0.99 | 98.83 | 0.00 |
| 242T | | 2.820 | 2.852 | 0.99 | 98.88 | 0.00 | |
| 484T | | 2.806 | 2.839 | 0.99 | 98.84 | 0.00 | |
| 996T | 2.806 | 2.839 | 0.99 | 98.84 | 0.00 | | |
| SU | 2.466 | 2.499 | 0.99 | 98.68 | 0.00 | | |
| 802.11ax HE160 | Single | 26T | 4.396 | 4.477 | 0.98 | 98.19 | 0.00 |
| | | 52T | 4.253 | 4.329 | 0.98 | 98.24 | 0.00 |
| | | 106T | 4.175 | 4.250 | 0.98 | 98.24 | 0.00 |
| | | 242T | 4.147 | 4.202 | 0.99 | 98.69 | 0.00 |
| | | 484T | 4.179 | 4.220 | 0.99 | 99.03 | 0.00 |
| | 996T | 4.175 | 4.197 | 0.99 | 99.48 | 0.00 | |
| | 996T+996T | 2.809 | 2.842 | 0.99 | 98.84 | 0.00 | |
| | SU | 1.651 | 1.683 | 0.98 | 98.10 | 0.00 | |
| | ALL | 26T | 4.395 | 4.477 | 0.98 | 98.17 | 0.00 |
| | | 52T | 4.253 | 4.332 | 0.98 | 98.18 | 0.00 |
| 106T | | 4.176 | 4.251 | 0.98 | 98.24 | 0.00 | |
| 242T | | 4.137 | 4.204 | 0.98 | 98.41 | 0.00 | |
| 484T | | 4.161 | 4.195 | 0.99 | 99.19 | 0.00 | |
| 996T | 4.175 | 4.198 | 0.99 | 99.45 | 0.00 | | |
| 996T+996T | 2.808 | 2.841 | 0.99 | 98.84 | 0.00 | | |
| SU | 3.082 | 3.115 | 0.99 | 98.94 | 0.00 | | |

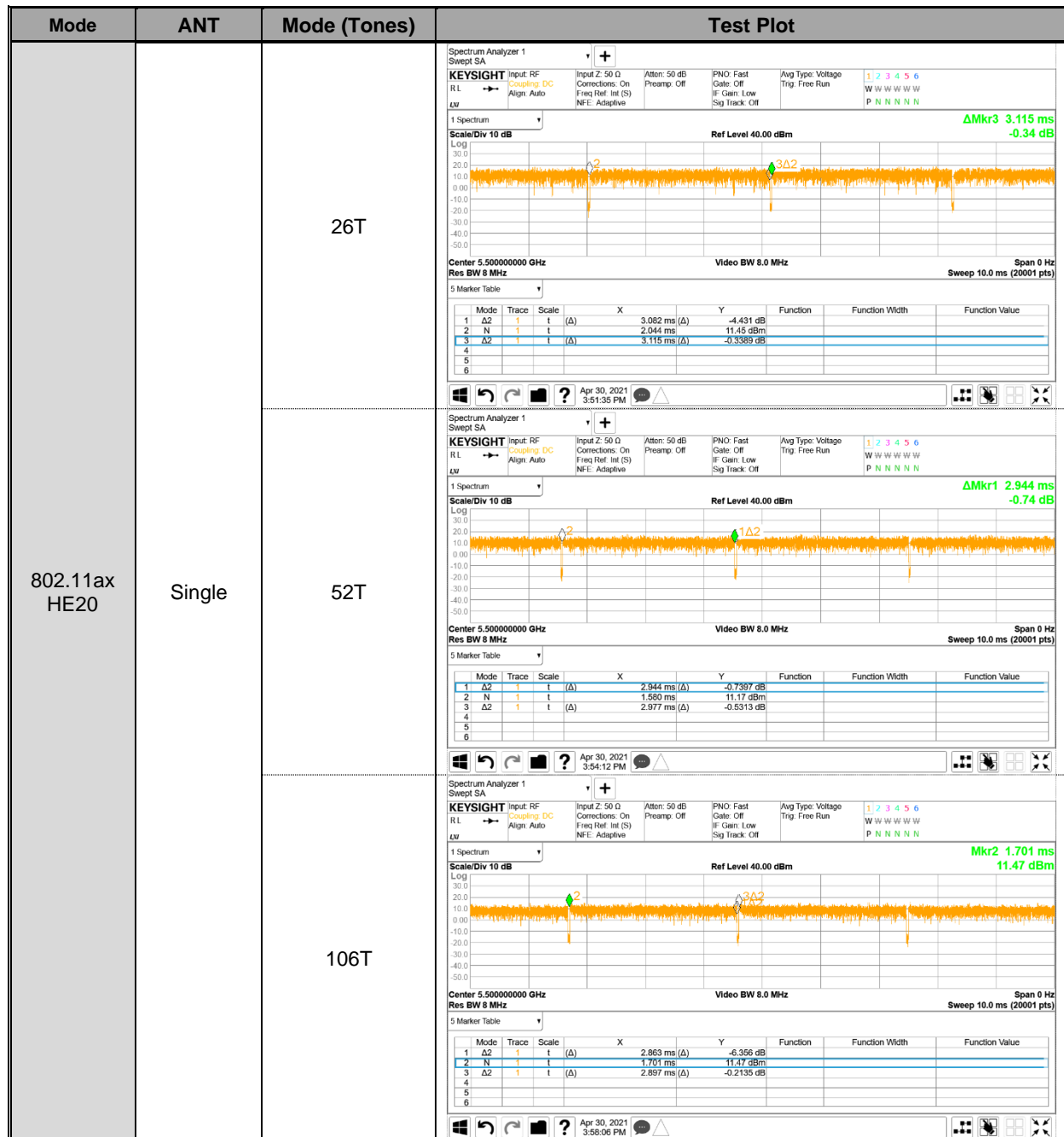
LIMITS

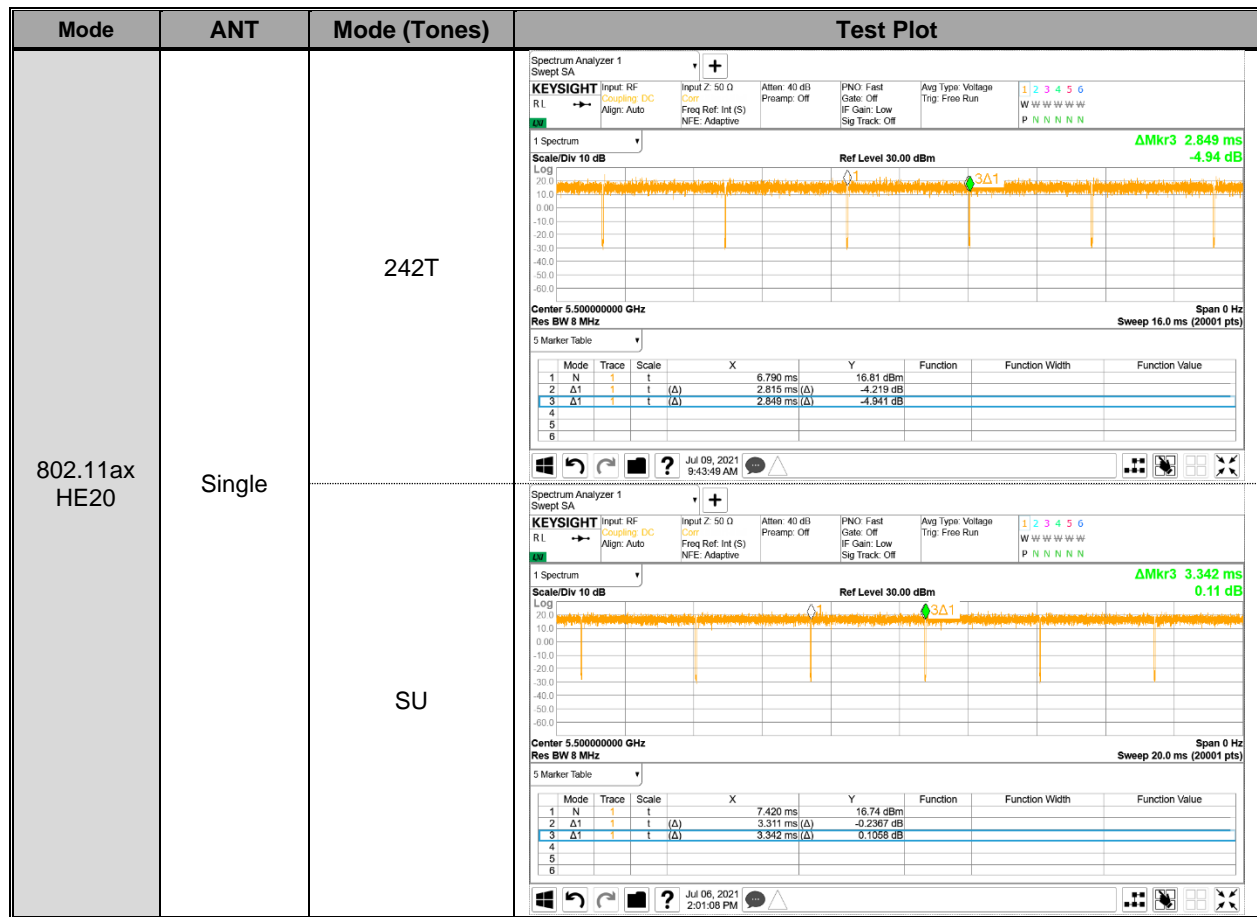
None; for reporting purposes only.

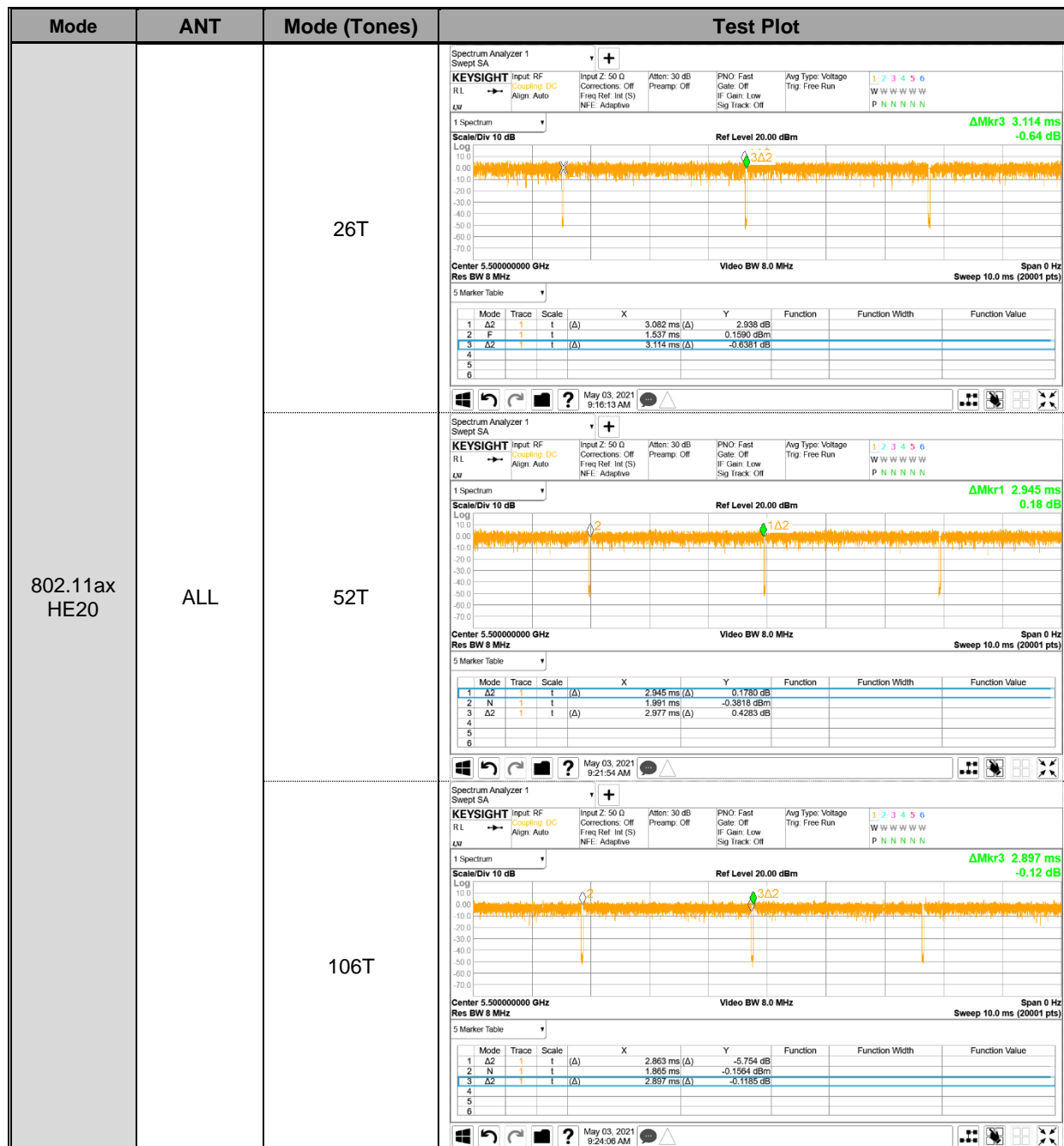
PROCEDURE

KDB 789033 D02 v02r01 Zero-Span Spectrum Analyzer Method.

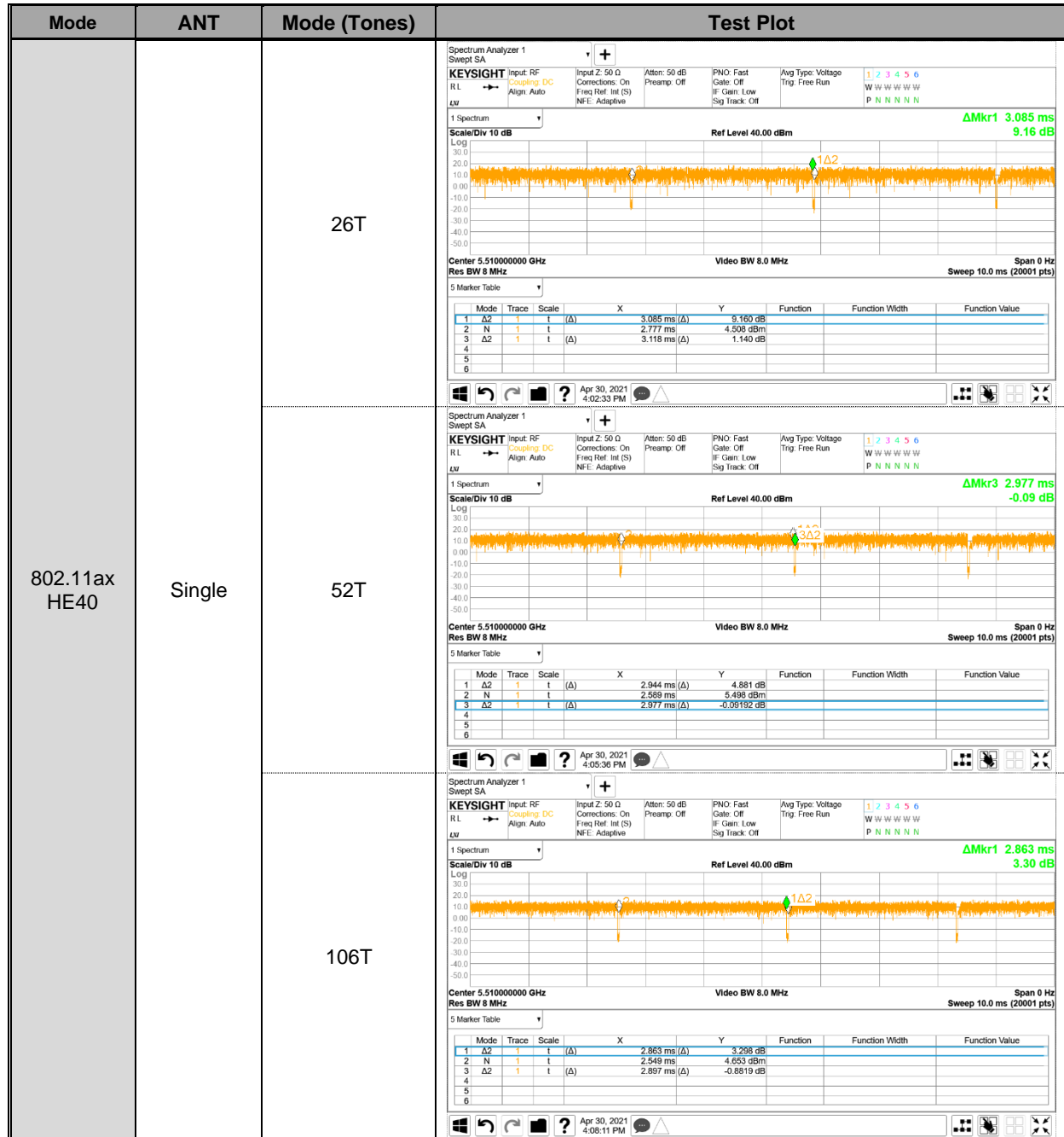
DUTY CYCLE PLOTS

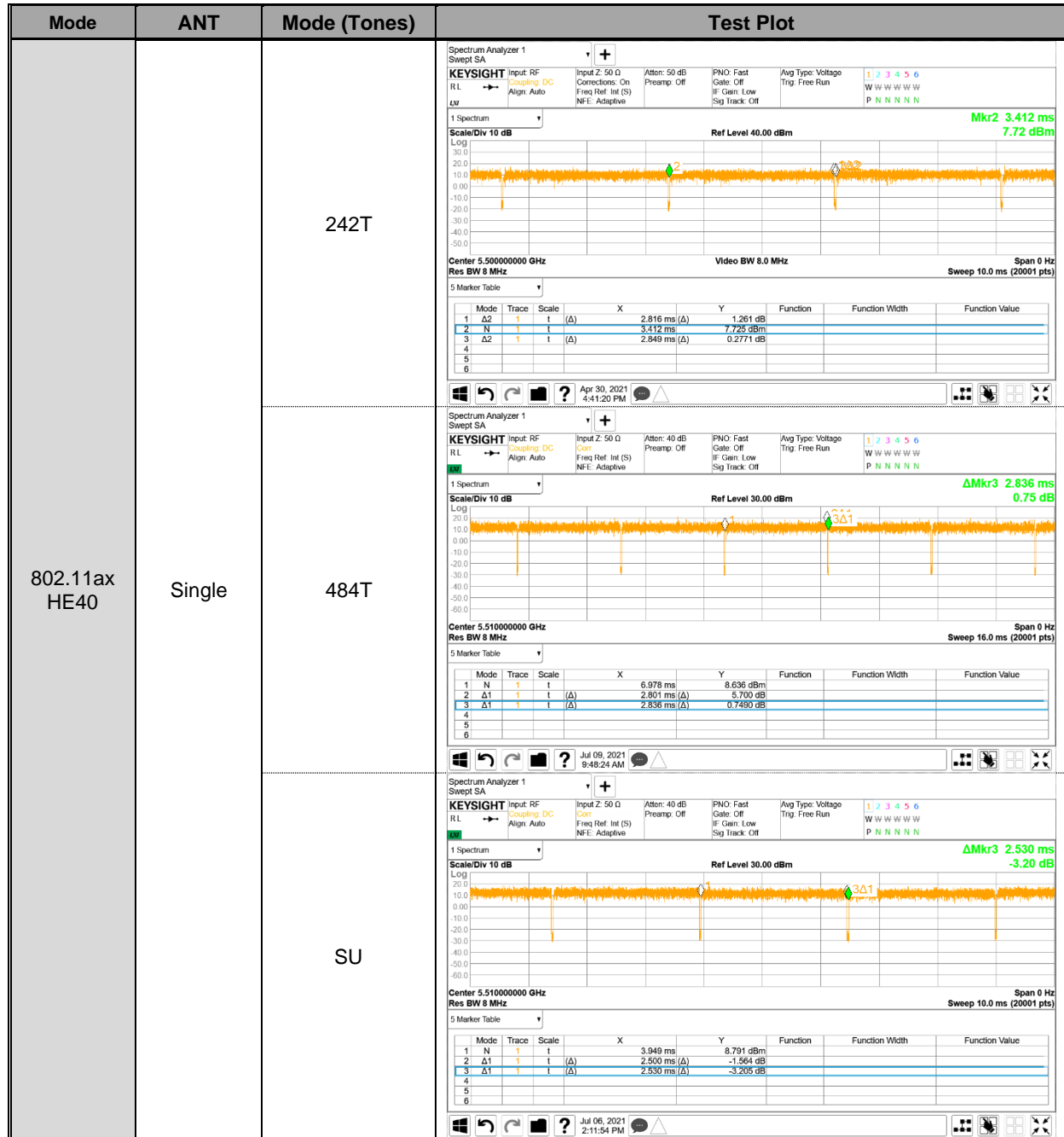


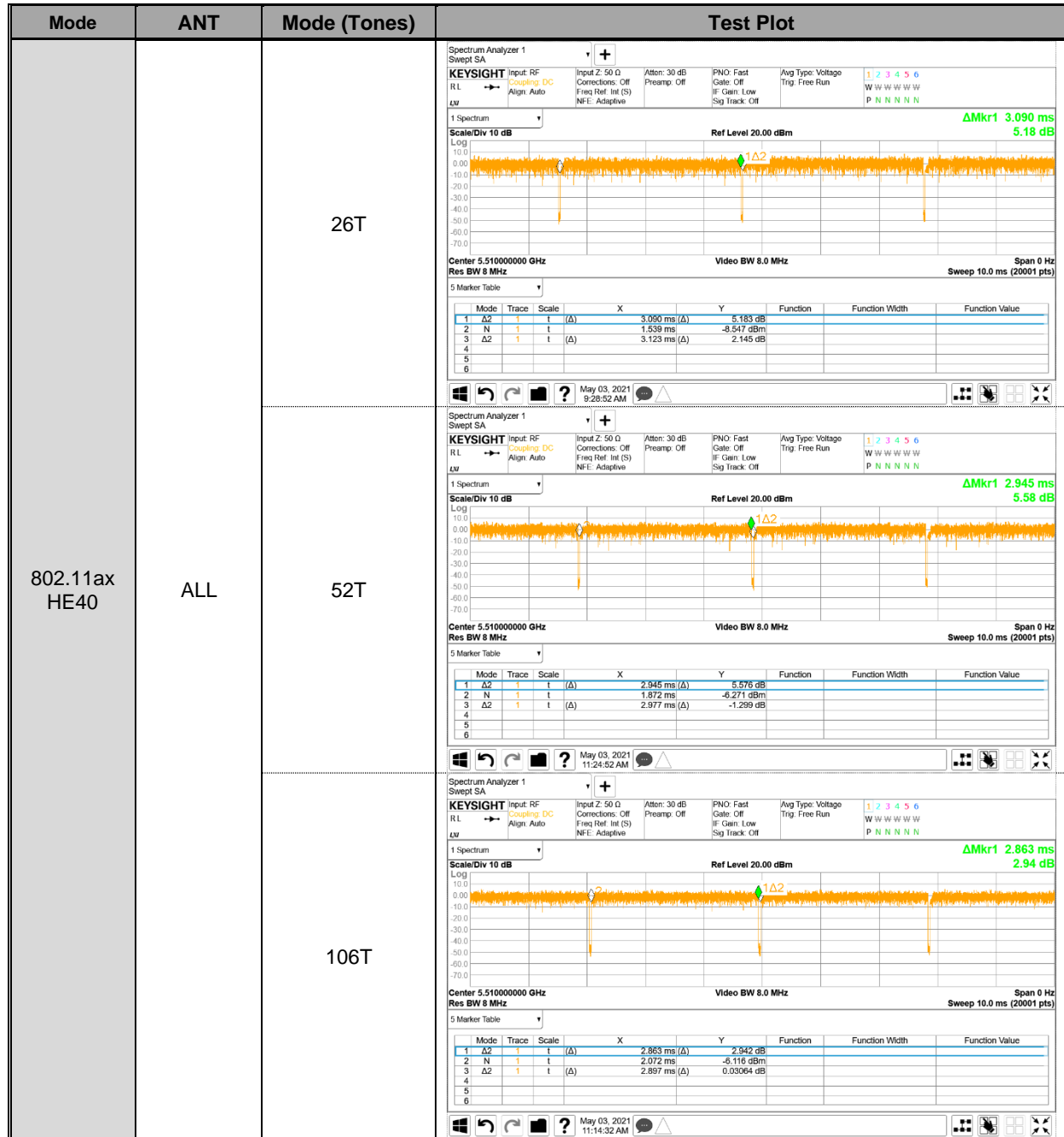


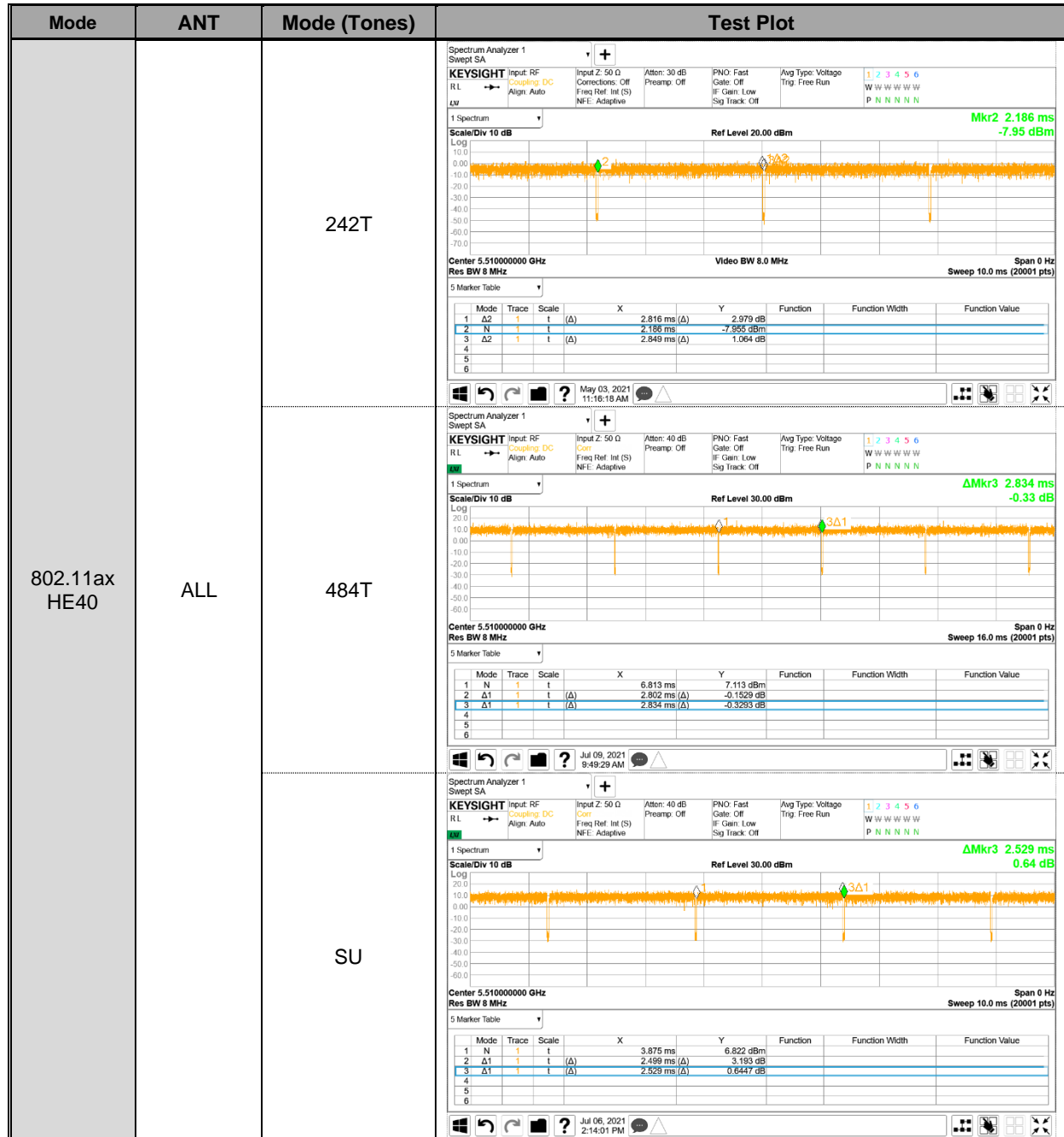


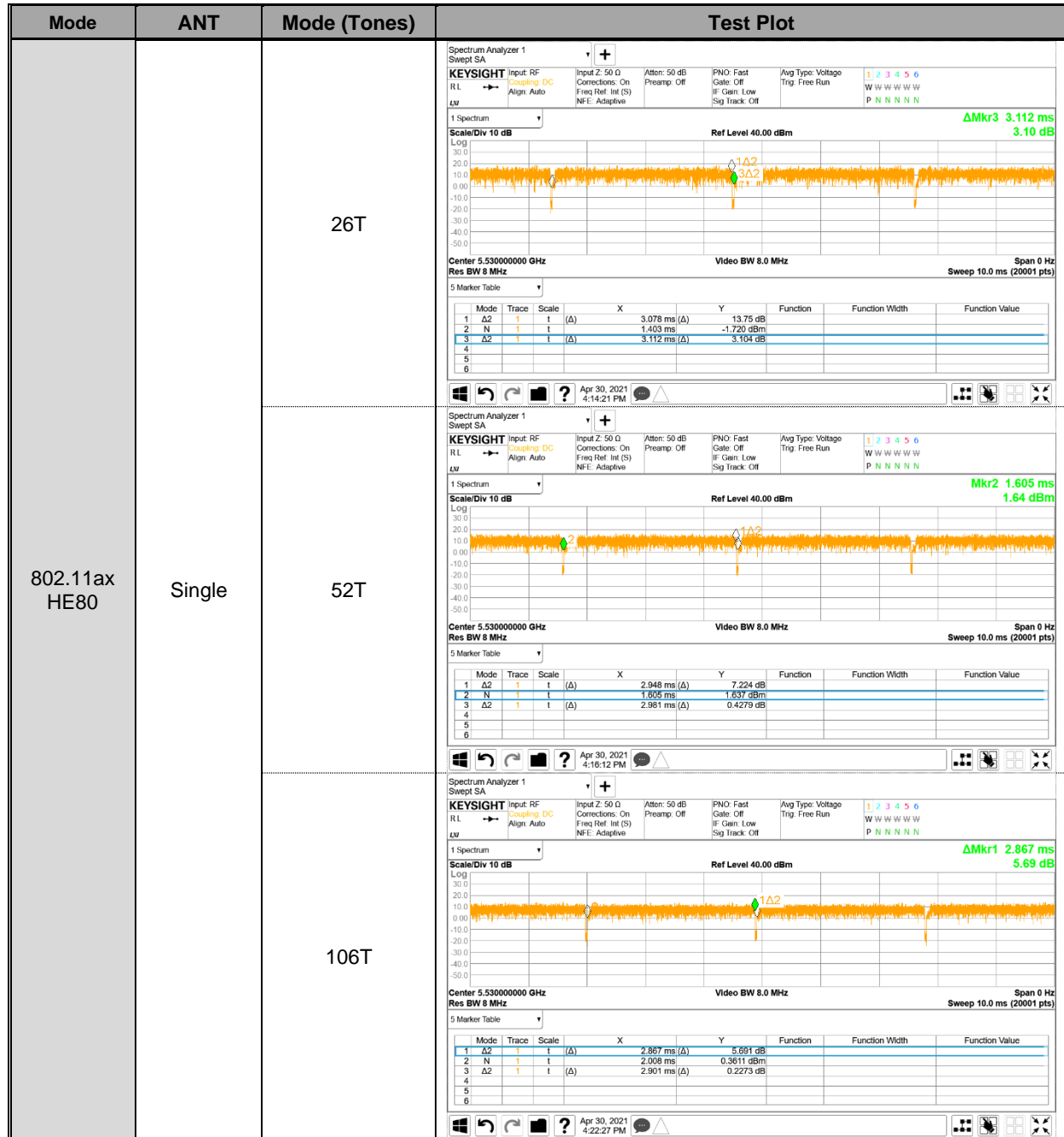


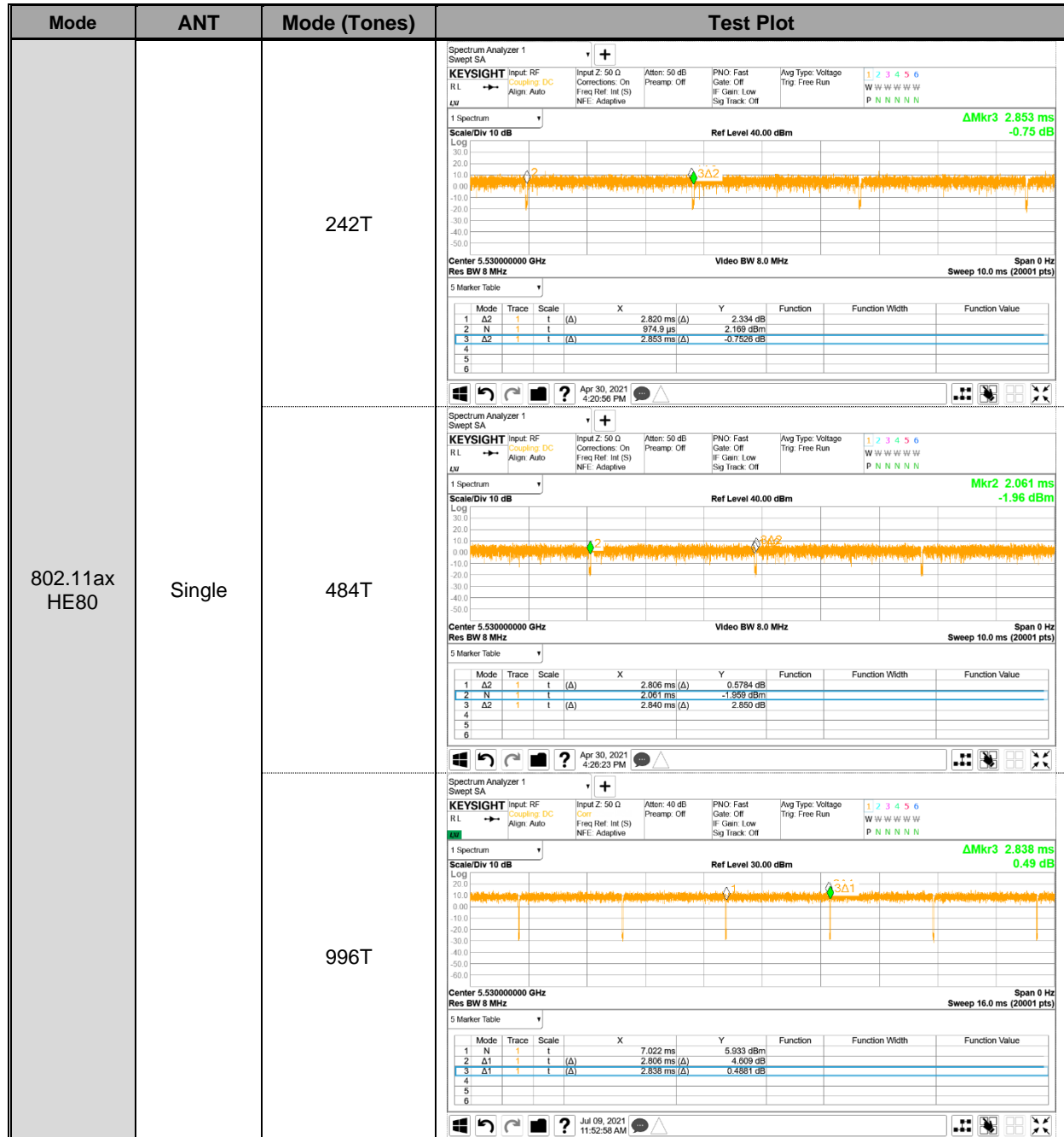


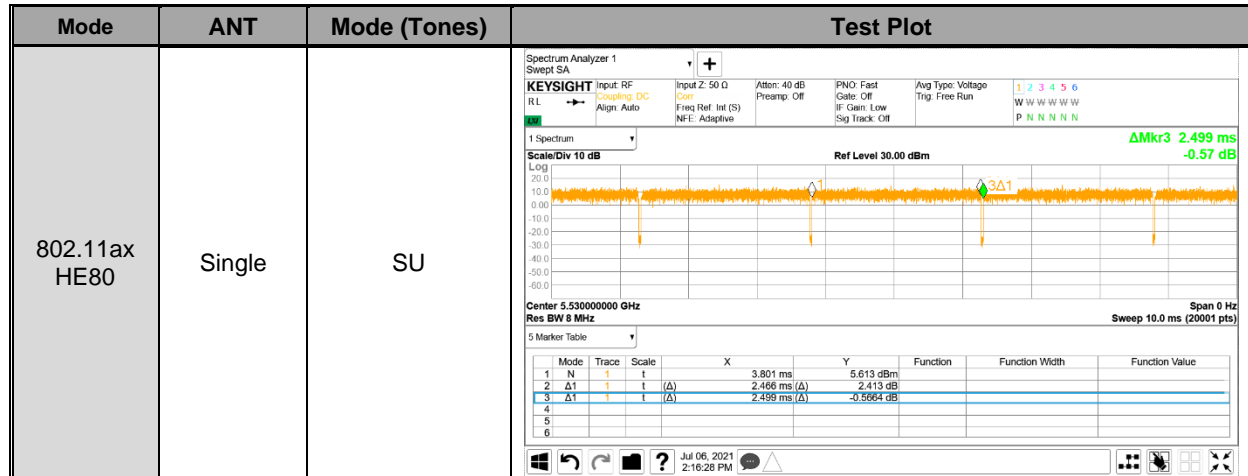




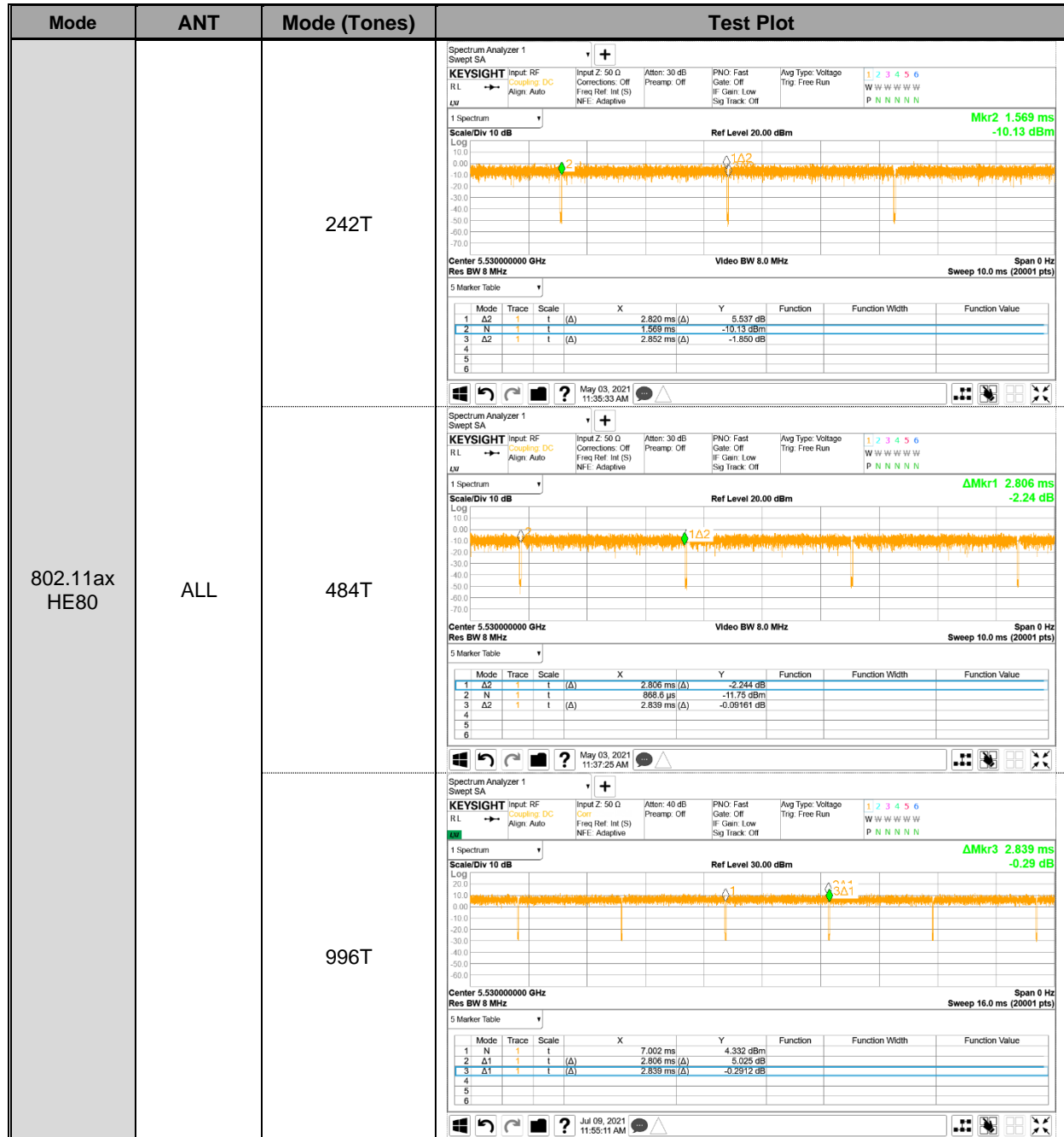


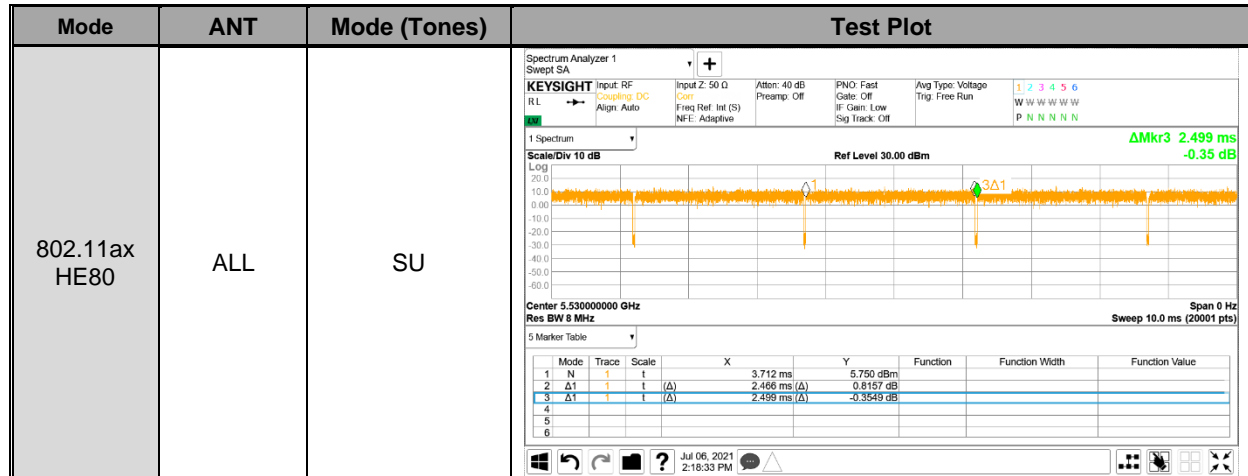


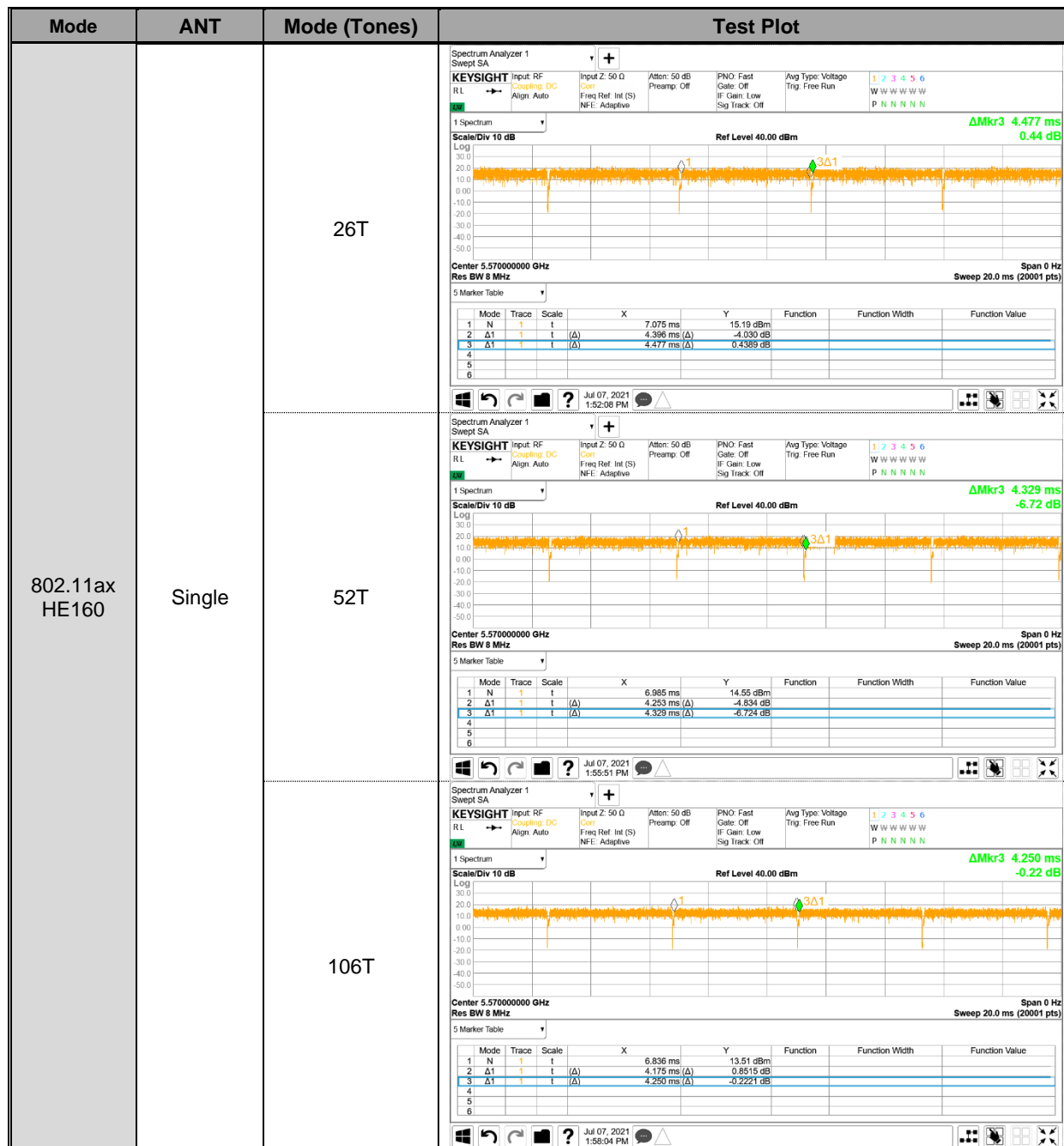


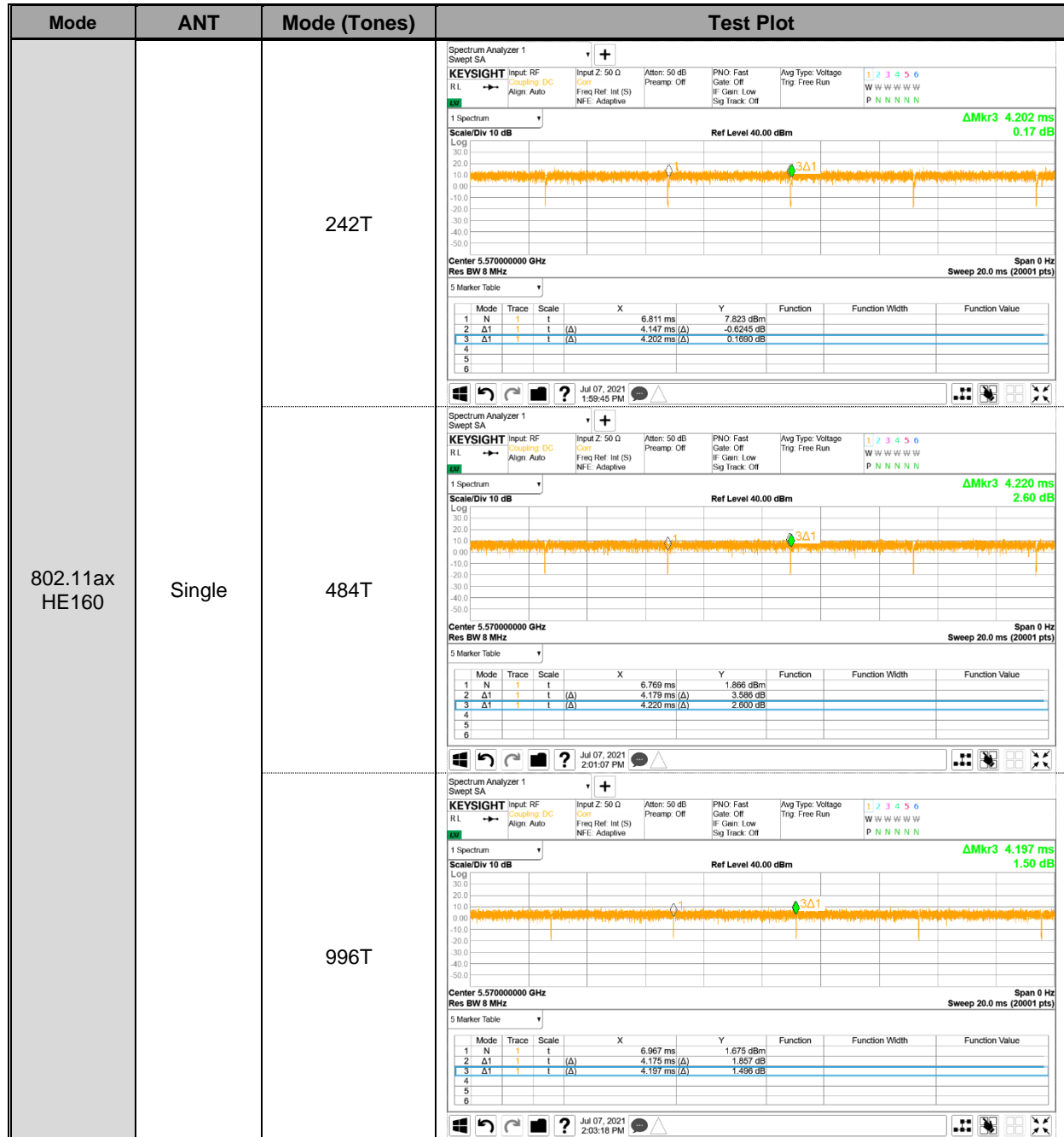


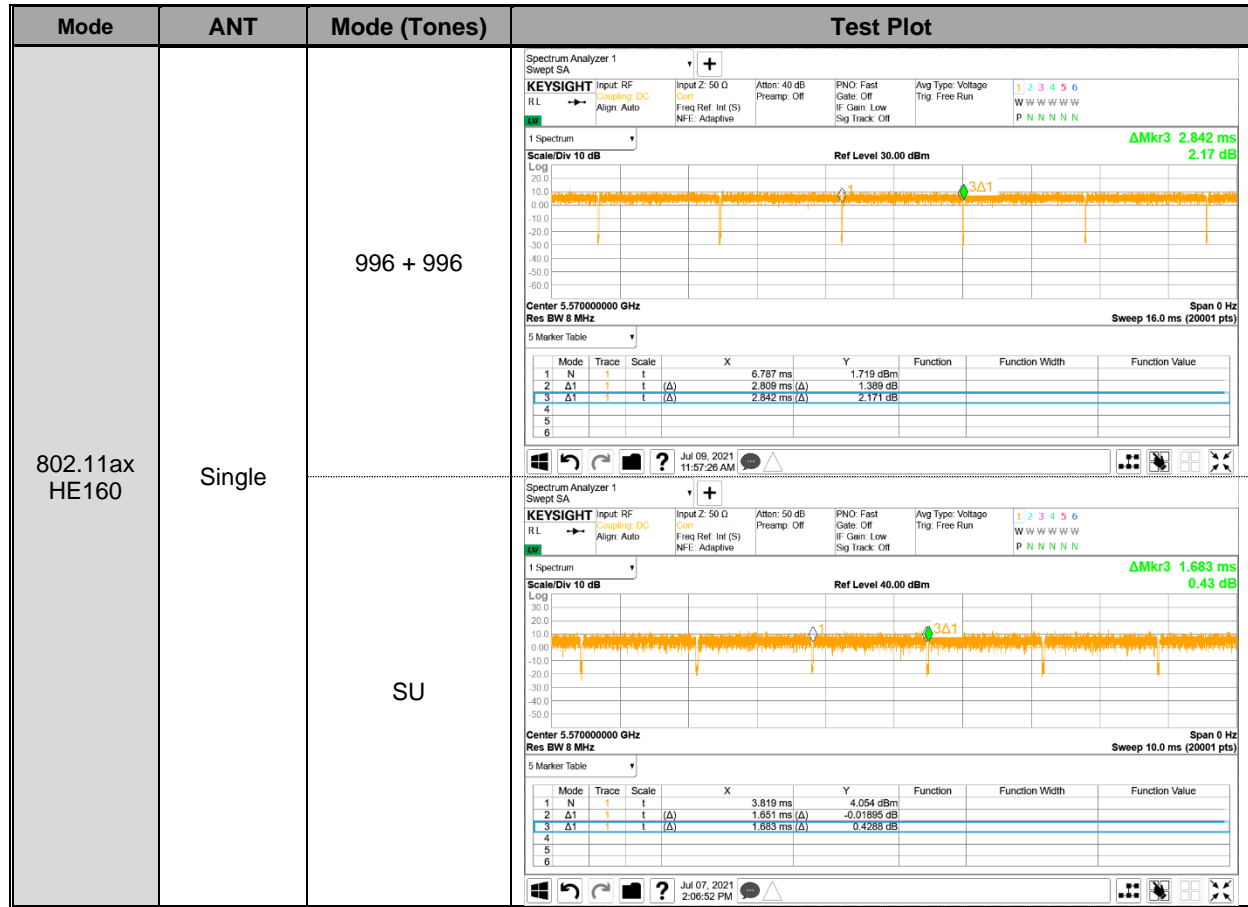


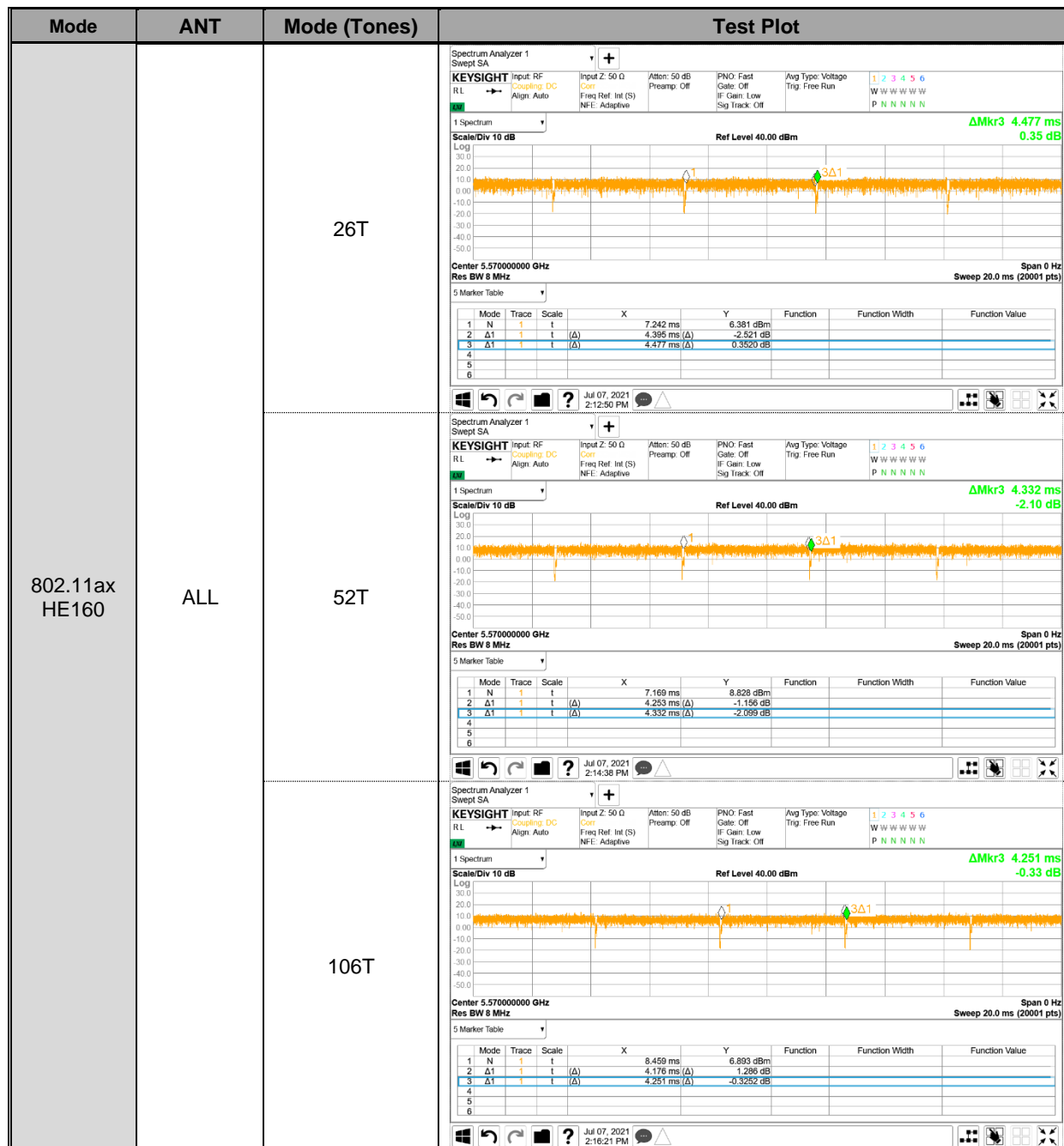


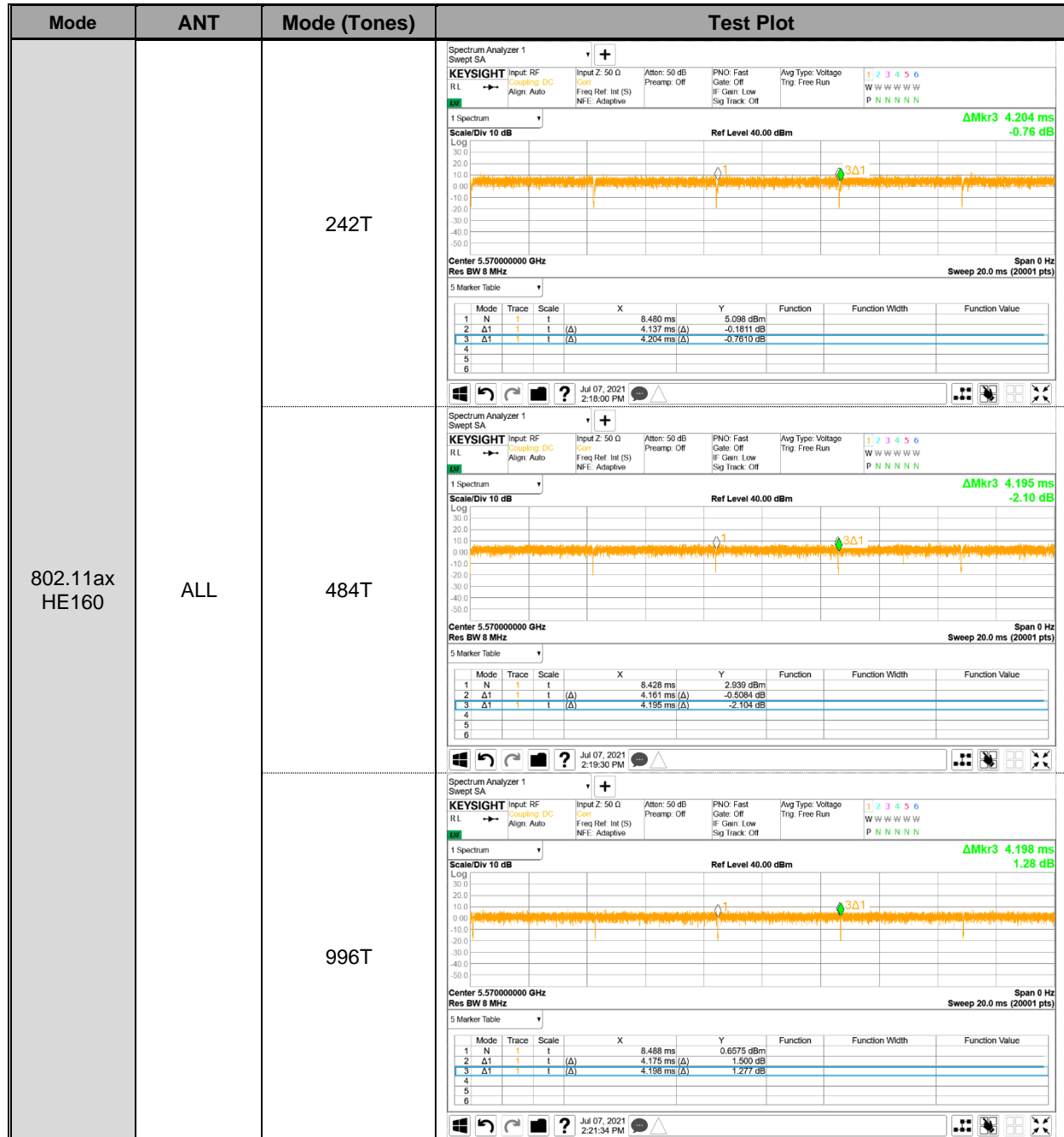














9.2. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Reference to 789033 D02 General UNII Test Procedures New Rules v02r01:

The transmitter output is connected to a spectrum analyzer with the RBW set to approximately 1% of EBW, the VBW > RBW, peak detector and max hold.

NOTE

- Calculation for 26dB Bandwidth of RU allocation and channels included to straddle band in UNII-2C and UNII-3 Straddle Channel

- ex) Marker 2: Lower point of 26 dB bandwidth
Marker 3: Upper point of 26 dB bandwidth
 - Turning Frequency : 5725MHz
 - Marker 2: 5710 MHz
 - Marker 3: 5730 MHz
 - 26dB Bandwidth of UNII-2C band Portion
= (5725 – 5710) = 15 MHz
 - 26dB Bandwidth of UNII-3 band Portion
= (5730 - 5725) = 5 MHz

RESULTS

See the next page.

9.2.1. 802.11ax 5.2 GHz BAND

| Band | Mode | Center Freq. [MHz] | Tones | RU offset | 26 dB BW [MHz] | | | |
|-------------|-------|--------------------|-------|-----------|----------------|--------|--------|--------|
| | | | | | ANT1 | ANT2 | ANT3 | ANT4 |
| UNII-1 | HE20 | 5180 | 26T | 0 | 19.78 | 19.70 | 18.45 | 19.60 |
| | | | | 4 | 18.19 | 17.71 | 18.38 | 18.44 |
| | | | | 8 | 19.44 | 19.81 | 18.81 | 19.70 |
| | | | SU | - | 21.20 | 21.21 | 21.28 | 21.13 |
| | | 5200 | 26T | 0 | 19.49 | 19.64 | 19.56 | 19.72 |
| | | | | 4 | 18.46 | 18.98 | 17.53 | 18.40 |
| | | | | 8 | 20.13 | 19.61 | 19.82 | 19.09 |
| | | | SU | - | 21.89 | 21.27 | 21.16 | 21.42 |
| | | 5240 | 26T | 0 | 19.53 | 19.07 | 18.72 | 19.62 |
| | | | | 4 | 19.03 | 17.90 | 17.73 | 18.61 |
| | | | | 8 | 19.81 | 19.85 | 19.93 | 19.65 |
| | | | SU | - | 21.18 | 21.37 | 21.39 | 21.25 |
| | HE40 | 5190 | 26T | 0 | 38.81 | 39.21 | 38.95 | 39.09 |
| | | | | 9 | 37.22 | 38.13 | 38.03 | 38.10 |
| | | | | 17 | 38.72 | 38.83 | 38.61 | 37.66 |
| | | | SU | - | 39.58 | 39.52 | 39.59 | 39.72 |
| | | 5230 | 26T | 0 | 39.14 | 39.12 | 38.92 | 38.95 |
| | | | | 9 | 37.66 | 38.02 | 37.97 | 37.95 |
| | | | | 17 | 38.94 | 38.78 | 39.14 | 38.75 |
| | | | SU | - | 39.66 | 39.64 | 39.66 | 39.85 |
| | HE80 | 5210 | 26T | 0 | 79.53 | 79.68 | 78.27 | 79.57 |
| | | | | 18 | 77.72 | 76.84 | 77.73 | 77.64 |
| | | | | 36 | 78.04 | 79.41 | 79.63 | 79.68 |
| | | | SU | - | 81.58 | 81.58 | 81.31 | 80.91 |
| UNII-1 & 2A | HE160 | 5250 | SU | - | 163.00 | 163.30 | 163.10 | 163.00 |

9.2.2. 802.11ax 5.3 GHz BAND

| Band | Mode | Center Freq. [MHz] | Tones | RU offset | 26 dB BW [MHz] | | | |
|---------|------|--------------------|-------|-----------|----------------|-------|-------|-------|
| | | | | | ANT1 | ANT2 | ANT3 | ANT4 |
| UNII-2A | HE20 | 5260 | 26T | 0 | 19.37 | 19.89 | 19.59 | 19.62 |
| | | | | 4 | 18.96 | 18.31 | 19.01 | 18.84 |
| | | | | 8 | 19.70 | 19.53 | 19.85 | 19.78 |
| | | | SU | - | 21.58 | 21.34 | 21.37 | 21.24 |
| | | 5300 | 26T | 0 | 19.67 | 18.86 | 19.56 | 19.72 |
| | | | | 4 | 18.23 | 18.58 | 18.69 | 18.53 |
| | | | | 8 | 19.58 | 19.68 | 19.94 | 19.78 |
| | | | SU | - | 21.39 | 21.26 | 21.35 | 21.35 |
| | | 5320 | 26T | 0 | 19.78 | 19.78 | 19.70 | 19.79 |
| | | | | 4 | 18.14 | 18.33 | 18.72 | 18.68 |
| | | | | 8 | 18.95 | 19.28 | 19.61 | 19.64 |
| | | | SU | - | 21.35 | 21.21 | 21.45 | 21.49 |
| | HE40 | 5270 | 26T | 0 | 38.96 | 39.05 | 39.01 | 38.89 |
| | | | | 9 | 38.14 | 38.21 | 37.83 | 38.00 |
| | | | | 17 | 37.75 | 39.08 | 38.99 | 38.96 |
| | | | SU | - | 39.65 | 39.71 | 39.53 | 39.57 |
| | | 5310 | 26T | 0 | 38.76 | 38.70 | 39.34 | 38.97 |
| | | | | 9 | 38.16 | 38.20 | 37.34 | 38.12 |
| | | | | 17 | 37.94 | 38.98 | 38.93 | 39.04 |
| | | | SU | - | 39.85 | 39.72 | 39.65 | 39.69 |
| | HE80 | 5290 | 26T | 0 | 79.36 | 79.50 | 79.48 | 78.21 |
| | | | | 18 | 77.33 | 77.91 | 77.40 | 78.03 |
| | | | | 36 | 79.68 | 79.67 | 79.53 | 79.52 |
| | | | SU | - | 80.90 | 81.01 | 81.40 | 81.16 |

9.2.3. 802.11ax 5.5 GHz BAND

| Band | Mode | Center Freq. [MHz] | Tones | RU offset | 26 dB BW [MHz] | | | |
|---------|------|--------------------|-------|-----------|----------------|--------|--------|-------|
| | | | | | ANT1 | ANT2 | ANT3 | ANT4 |
| UNII-2C | HE20 | 5500 | 26T | 0 | 19.68 | 18.73 | 19.53 | 19.87 |
| | | | | 4 | 16.20 | 17.85 | 18.27 | 18.35 |
| | | | | 8 | 19.70 | 19.76 | 19.75 | 19.80 |
| | | | SU | - | 21.16 | 21.33 | 21.36 | 21.31 |
| | | 5580 | 26T | 0 | 19.48 | 19.52 | 19.58 | 19.73 |
| | | | | 4 | 18.59 | 18.75 | 18.32 | 18.01 |
| | | | | 8 | 19.80 | 20.10 | 19.88 | 20.07 |
| | | | SU | - | 21.19 | 21.87 | 21.28 | 21.31 |
| | | 5700 | 26T | 0 | 19.84 | 18.77 | 19.68 | 19.54 |
| | | | | 4 | 16.87 | 18.89 | 18.40 | 18.47 |
| | | | | 8 | 19.74 | 19.74 | 19.62 | 19.93 |
| | | | SU | - | 21.29 | 21.49 | 21.31 | 21.44 |
| | HE40 | 5510 | 26T | 0 | 38.57 | 38.98 | 39.06 | 38.76 |
| | | | | 9 | 38.13 | 37.89 | 37.82 | 36.32 |
| | | | | 17 | 39.02 | 38.98 | 38.14 | 38.78 |
| | | | SU | - | 39.63 | 39.69 | 39.65 | 39.38 |
| | | 5590 | 26T | 0 | 38.90 | 38.78 | 38.94 | 39.03 |
| | | | | 9 | 38.00 | 37.98 | 38.10 | 37.92 |
| | | | | 17 | 38.75 | 38.26 | 38.62 | 38.90 |
| | | | SU | - | 39.67 | 39.72 | 39.64 | 39.47 |
| | | 5670 | 26T | 0 | 39.02 | 39.08 | 37.94 | 38.61 |
| | | | | 9 | 38.02 | 37.42 | 37.73 | 37.34 |
| | | | | 17 | 38.82 | 39.01 | 38.80 | 38.76 |
| | | | SU | - | 39.64 | 39.86 | 39.64 | 39.78 |
| | HE80 | 5530 | 26T | 0 | 79.69 | 79.91 | 79.72 | 76.63 |
| | | | | 18 | 77.14 | 77.75 | 78.02 | 77.61 |
| | | | | 36 | 79.44 | 79.65 | 79.44 | 79.92 |
| | | | SU | - | 81.24 | 81.42 | 81.08 | 81.16 |
| | | 5610 | 26T | 0 | 77.79 | 78.98 | 79.68 | 79.69 |
| | | | | 18 | 77.34 | 77.05 | 78.17 | 77.16 |
| 36 | | | | 79.86 | 79.38 | 79.30 | 79.54 | |
| SU | | | - | 81.71 | 81.59 | 81.21 | 80.95 | |
| HE160 | 5570 | SU | - | 163.80 | 163.20 | 162.50 | 162.90 | |

9.2.4. 802.11ax STRADDLE CHANNEL

| Mode | Center Freq. [MHz] | Tones | RU offset | 26 dB BW [MHz] | | | | | | | |
|------|--------------------|-------|-----------|----------------|--------|---------|--------|---------|--------|---------|--------|
| | | | | ANT1 | | ANT2 | | ANT3 | | ANT4 | |
| | | | | UNII-2C | UNII-3 | UNII-2C | UNII-3 | UNII-2C | UNII-3 | UNII-2C | UNII-3 |
| HE20 | 5720 | 26T | 4 | 14.42 | 4.25 | 14.61 | 4.19 | 14.44 | 4.04 | 14.42 | 4.22 |
| | | SU | - | 15.67 | 5.52 | 15.69 | 5.70 | 15.65 | 5.70 | 15.75 | 5.65 |
| HE40 | 5710 | 26T | 9 | 34.04 | 3.98 | 34.12 | 4.00 | 34.08 | 4.12 | 34.07 | 4.12 |
| | | SU | - | 34.94 | 4.85 | 34.84 | 4.89 | 34.84 | 4.92 | 34.68 | 4.80 |
| HE80 | 5690 | 26T | 18 | 74.01 | 3.83 | 73.86 | 3.80 | 73.95 | 3.76 | 73.95 | 3.78 |
| | | SU | - | 75.48 | 5.45 | 75.24 | 5.48 | 75.32 | 5.41 | 75.28 | 5.84 |

9.2.5. WORST CASE TEST PLOT_802.11ax 5.2 GHz BAND

