

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190405 Page: 1 of 533 FCC ID: APIHKVIRTUO

# TEST REPORT

| Application No.:          | SZCR2306001904AT  |  |  |  |
|---------------------------|---|--|--|--|
| Applicant:                | Harman International Industries, Inc.   |  |  |  |
| Address of Applicant:     | 8500 Balboa Boulevard, Northridge, California, 91329, United States   |  |  |  |
| Manufacturer:             | Harman International Industries, Inc.   |  |  |  |
| Address of Manufacturer:  | 8500 Balboa Boulevard, Northridge, California, 91329, United States   |  |  |  |
| Factory:                  | Guangzhou Panyu Juda Car Audio Equipment Co., Ltd   |  |  |  |
| Address of Factory:       | NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District,<br>Guangzhou City, Guangdong Province, China |  |  |  |
| Equipment Under Test (EUT | ):  |  |  |  |
| EUT Name:                 | Smart Speaker   |  |  |  |
| Model No.:                | VIRTUO  |  |  |  |
| Trade Mark:               | harman/kardon   |  |  |  |
| Standard(s) :             | 47 CFR Part 15, Subpart E 15.407  |  |  |  |
| Date of Receipt:          | 2023-06-16  |  |  |  |
| Date of Test:             | 2023-06-19 to 2023-06-21  |  |  |  |
| Date of Issue:            | 2023-06-25  |  |  |  |
| Test Result:              | Pass*   |  |  |  |

\* In the configuration tested, the EUT complied with the standards specified above.

Keny. Ku

#### Keny Xu EMC Laboratory Manager



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| Revision Record |         |            |          |          |  |  |
|-----------------|---------|------------|----------|----------|--|--|
| Version         | Chapter | Date       | Modifier | Remark   |  |  |
| 01              |         | 2023-06-25 |          | Original |  |  |
|                 |         |            |          |          |  |  |
|                 |         |            |          |          |  |  |

| Authorized for issue by: |                              |  |
|--------------------------|------------------------------|--|
|                          | Bonison Wang                 |  |
|                          | Benson Wang/Project Engineer |  |
|                          | Eric Fu                      |  |
|                          | Eric Fu/Reviewer             |  |



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#### **Test Summary** 2

| Radio Spectrum Technical Requirement   |                  |        |   |        |  |  |
|--|------------------|--------|---|--------|--|--|
| Item                                   | Standard         | Method | Requirement                             | Result |  |  |
| Antenna Requirement                    | 47 CFR Part 15,  | N/A    | 47 CFR Part 15, Subpart<br>C 15.203     | Pass   |  |  |
| Transmission in the<br>Absence of Data | Subpart E 15.407 | N/A    | 47 CFR Part 15, Subpart<br>E 15.407 (c) | Pass   |  |  |

| Radio Spectrum Matter Part                                  |                  |                                   |  |        |  |  |  |
|---|------------------|-----------------------------------|--|--------|--|--|--|
| ltem  | Standard         | Method                            | Requirement  | Result |  |  |  |
| Conducted Emissions<br>at AC Power Line<br>(150kHz-30MHz)   |                  | ANSI C63.10 (2013)<br>Section 6.2 | 47 CFR Part 15, Subpart<br>C 15.207 & Subpart E<br>15.407 b(9) | Pass   |  |  |  |
| Duty Cycle  |                  | KDB 789033 II B 1                 | KDB 789033 D02 II B 1  | Pass   |  |  |  |
| 99% Bandwidth   |                  | KDB 789033 II D                   | N/A  | Pass   |  |  |  |
| 26dB Emission<br>bandwidth                                  |                  | KDB 789033 D02 II C 1             | 47 CFR Part 15, Subpart<br>E 15.407 (a)                        | Pass   |  |  |  |
| Minimum 6 dB<br>bandwidth (5.725-<br>5.85 GHz band)         |                  | KDB 789033 D02 II C 2             | 47 CFR Part 15, Subpart<br>E 15.407 (e)                        | Pass   |  |  |  |
| Maximum Conducted<br>output power                           | 47 CFR Part 15,  | KDB 789033 D02 II E               | 47 CFR Part 15, Subpart<br>E 15.407 (a)                        | Pass   |  |  |  |
| Peak Power spectrum<br>density                              | Subpart E 15.407 | KDB 789033 D02 II F               | 47 CFR Part 15, Subpart<br>E 15.407 (a)                        | Pass   |  |  |  |
| Radiated Emissions<br>(Above 1GHz)                          |                  | KDB 789033 D02 II G               | 47 CFR Part 15, Subpart<br>C 15.209 & Subpart E<br>15.407(b)   | Pass   |  |  |  |
| Radiated Emissions<br>which fall in the<br>restricted bands |                  | KDB 789033 D02 II G               | 47 CFR Part 15, Subpart<br>C 15.209 & Subpart E<br>15.407(b)   | Pass   |  |  |  |
| Frequency Stability   |                  | ANSI C63.10 (2013)<br>Section 6.8 | 47 CFR Part 15, Subpart<br>E 15.407 (g)                        | Pass   |  |  |  |
| Radiated Emissions<br>(Below 1GHz)                          |                  | KDB 789033 D02 II G               | 47 CFR Part 15, Subpart<br>C 15.209 & Subpart E<br>15.407(b)   | Pass   |  |  |  |

### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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# 4 General Information

| 4.1 | Details of E.U.T.                          |  |
|-----|--|--|
|     | Power supply:                              | AC 100-240 V, 50/60 Hz, 45 W   |
|     | Cable(s):                                  | AC mains ports with unshielded cables (2m)                                       |
|     |  | Aux in ports   |
|     |  | LAN ports  |
|     |  | Type C ports   |
|     | Test Voltage:                              | AC 120 V, 60 Hz  |
|     |  | U-NII-1: 5180-5240MHz (4 Channels);  |
|     | Operation Frequency/<br>Number of channels | U-NII-2A: 5260-5320MHz (4 Channels);   |
|     | (20MHz):                                   | U-NII-2C: 5500-5700MHz (11 Channels);  |
|     | · · · ·                                    | U-NII-3: 5745-5825MHz (5 Channels)   |
|     | Operation Frequency                        | U-NII-1: 5190-5230MHz (2 Channels);  |
|     | Operation Frequency<br>/Number of channels | U-NII-2A: 5270-5310MHz (2 Channels);   |
|     | (40MHz):                                   | U-NII-2C: 5510-5670MHz (5 Channels);   |
|     | <b>a</b>                                   | U-NII-3: 5755-5795MHz (2 Channels)   |
|     | Operation Frequency/<br>Number of channels | U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels);                    |
|     | (80MHz):                                   | U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)                |
|     | · · · ·                                    | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK);  |
|     | Modulation Type:                           | 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);  |
|     |  | 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);                               |
|     |  | 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM)                               |
|     |  | 802.11a/n(HT20)/ac(VHT20)/ax(HEW20): 20MHz;                                      |
|     | Channel Spacing:                           | 802.11n(HT40)/ac(VHT40)/ax(HEW40): 40MHz;  |
|     |  | 802.11ac(VHT80)/ax(HEW80): 80MHz   |
|     | DFS Function:                              | Slave without Radar detection  |
|     | TPC Function:                              | Without TPC function   |
|     | Antenna Type:                              | Integral Antenna   |
|     | Antenna Gain:                              | 2.85 dBi for antenna 0, 2.92 dBi for antenna 1                                   |
|     | Remark:                                    | Two antennas can simultaneous transmission                                       |
|     | Antenna Number:                            | 2  |
|     | Homork: The intermetic                     | n in this section is provided by the applicant or manufacturer $SCS$ is not ligh |

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### 4.2 Description of Support Units

| Description        | Manufacturer | Model No.     | Serial No. |
|--------------------|--------------|---------------|------------|
| Note Book Computer | LENOVO       | ThinkPad T490 | PF1D1MVJ   |





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### 4.3 Measurement Uncertainty

| Test Item   | Measurement Uncertainty       |  |
|---|-------------------------------|--|
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | $\pm$ 3.0dB (150kHz to 30MHz) |  |
| Duty Cycle  | ± 0.37%                       |  |
| 99% Bandwidth   | ± 3%                          |  |
| 26dB Emission bandwidth                               | ± 3%                          |  |
| Minimum 6 dB bandwidth (5.725-5.85 GHz band)          | ± 3%                          |  |
| Maximum Conducted output power                        | ± 0.75dB                      |  |
| Peak Power spectrum density                           | ± 2.84dB                      |  |
| Radiated Emissions (Above 1GHz)                       | ± 4.8dB                       |  |
| Radiated Emissions which fall in the restricted bands | $\pm$ 4.5dB (below 1GHz);     |  |
| Radiated Emissions which fail in the restricted bands | ± 4.8dB (above 1GHz);         |  |
| Frequency Stability                                   | ± 7.25 x 10 <sup>-8</sup>     |  |
| Radiated Emissions (Below 1GHz)                       | ± 4.5dB                       |  |

### Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; - non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057. No tests were sub-contracted.



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### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006. IC#: 4620C.

### 4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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# 5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) |                 |                      |            |            |            |
|---|-----------------|----------------------|------------|------------|------------|
| Equipment   | Manufacturer    | lodel No.            | entory No. | al Date    | Due Date   |
| Shielding Room                                      | hongYu Electron | GB-88                | EM001-06   | 22-05-14   | 25-05-13   |
| EMI Test Receiver                                   | Rohde&Schwarz   | ESCI                 | SEM004-02  | 2023-03-20 | 2024-03-19 |
| Matching Pad  | N/A             | N/A                  | SEM021-23  | 2023-03-22 | 2024-03-21 |
| Matching Pad  | N/A             | N/A                  | SEM021-24  | 2023-03-22 | 2024-03-21 |
| Measurement Software                                | AUDIX           | e3 V8.2014-6-<br>27a | N/A        | N/A        | N/A        |
| Coaxial Cable                                       | SGS             | N/A                  | SEM024-01  | 2022-07-08 | 2023-07-07 |
| LISN  | Rohde&Schwarz   | ENV216               | SEM007-01  | 2022-09-20 | 2023-09-19 |
| LISN  | ETS-LINDGREN    | 3816/2               | SEM007-02  | 2023-03-20 | 2024-03-19 |

| Duty Cycle  |                                    |                   |               |                          |                          |
|---|------------------------------------|-------------------|---------------|--------------------------|--------------------------|
| Equipment   | Manufacturer                       | Model No.         | Inventory No. | Cal Date                 | Cal Due Date             |
| DC Power Supply                                   | Chroma                             | 62012P-80-60      | SEM011-11     | 2022-10-20               | 2023-10-19               |
| MXA Signal Analyzer                               | KEYSIGHT                           | N9020A            | SEM004-19     | 2023-03-21               | 2024-03-20               |
| Signal Generator                                  | KEYSIGHT                           | N5173B            | SEM006-05     | 2022-09-29               | 2023-09-28               |
| Measurement Software                              | TST PASS                           | TST PASS<br>V2.0  | N/A           | N/A                      | N/A                      |
| Coaxial Cable                                     | SGS                                | N/A               | SEM031-01     | 2022-07-08               | 2023-07-07               |
| Attenuator  | Huber+Suhner                       | 6620_SMA-50-<br>1 | SEM021-09     | 2022-04-01<br>2023-03-31 | 2023-03-31<br>2024-03-30 |
| Programmable<br>Temperature & Humidity<br>Chamber | Votsch<br>Industrietechnik<br>GmbH | VT 4002           | SEM002-15     | 2023-03-21               | 2024-03-20               |

| 99% Bandwidth                                     |                                    |                  |               |            |              |
|---|------------------------------------|------------------|---------------|------------|--------------|
| Equipment   | Manufacturer                       | Model No.        | Inventory No. | Cal Date   | Cal Due Date |
| DC Power Supply                                   | Chroma                             | 62012P-80-60     | SEM011-11     | 2022-10-20 | 2023-10-19   |
| MXA Signal Analyzer                               | KEYSIGHT                           | N9020A           | SEM004-19     | 2023-03-21 | 2024-03-20   |
| Signal Generator                                  | KEYSIGHT                           | N5173B           | SEM006-05     | 2022-09-29 | 2023-09-28   |
| Measurement Software                              | TST PASS                           | TST PASS<br>V2.0 | N/A           | N/A        | N/A          |
| Coaxial Cable                                     | SGS                                | N/A              | SEM031-01     | 2022-07-08 | 2023-07-07   |
| Attenuator  | Huber+Suhner                       | 6620_SMA-50-     | SEM021-09     | 2022-04-01 | 2023-03-31   |
| Allenualui  | Tuber+Suillei                      | 1                | SEIM021-09    | 2023-03-31 | 2024-03-30   |
| Programmable<br>Temperature & Humidity<br>Chamber | Votsch<br>Industrietechnik<br>GmbH | VT 4002          | SEM002-15     | 2023-03-21 | 2024-03-20   |



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| 26dB Emission bandwidth                           |                                    |                   |               |                          |                          |  |
|---|------------------------------------|-------------------|---------------|--------------------------|--------------------------|--|
| Equipment   | Manufacturer                       | Model No.         | Inventory No. | Cal Date                 | Cal Due Date             |  |
| DC Power Supply                                   | Chroma                             | 62012P-80-60      | SEM011-11     | 2022-10-20               | 2023-10-19               |  |
| MXA Signal Analyzer                               | KEYSIGHT                           | N9020A            | SEM004-19     | 2023-03-21               | 2024-03-20               |  |
| Signal Generator                                  | KEYSIGHT                           | N5173B            | SEM006-05     | 2022-09-29               | 2023-09-28               |  |
| Measurement Software                              | TST PASS                           | TST PASS<br>V2.0  | N/A           | N/A                      | N/A                      |  |
| Coaxial Cable                                     | SGS                                | N/A               | SEM031-01     | 2022-07-08               | 2023-07-07               |  |
| Attenuator  | Huber+Suhner                       | 6620_SMA-50-<br>1 | SEM021-09     | 2022-04-01<br>2023-03-31 | 2023-03-31<br>2024-03-30 |  |
| Programmable<br>Temperature & Humidity<br>Chamber | Votsch<br>Industrietechnik<br>GmbH | VT 4002           | SEM002-15     | 2023-03-21               | 2024-03-20               |  |

| Minimum 6 dB bandwidth (5.725-5.85 GHz band)      |                                    |                   |               |                          |                          |  |
|---|------------------------------------|-------------------|---------------|--------------------------|--------------------------|--|
| Equipment   | Manufacturer                       | Model No.         | Inventory No. | Cal Date                 | Cal Due Date             |  |
| DC Power Supply                                   | Chroma                             | 62012P-80-60      | SEM011-11     | 2022-10-20               | 2023-10-19               |  |
| MXA Signal Analyzer                               | KEYSIGHT                           | N9020A            | SEM004-19     | 2023-03-21               | 2024-03-20               |  |
| Signal Generator                                  | KEYSIGHT                           | N5173B            | SEM006-05     | 2022-09-29               | 2023-09-28               |  |
| Measurement Software                              | TST PASS                           | TST PASS<br>V2.0  | N/A           | N/A                      | N/A                      |  |
| Coaxial Cable                                     | SGS                                | N/A               | SEM031-01     | 2022-07-08               | 2023-07-07               |  |
| Attenuator  | Huber+Suhner                       | 6620_SMA-50-<br>1 | SEM021-09     | 2022-04-01<br>2023-03-31 | 2023-03-31<br>2024-03-30 |  |
| Programmable<br>Temperature & Humidity<br>Chamber | Votsch<br>Industrietechnik<br>GmbH | VT 4002           | SEM002-15     | 2023-03-21               | 2024-03-20               |  |

| Maximum Conducted output power                    |                                    |                   |               |                          |                          |  |
|---|------------------------------------|-------------------|---------------|--------------------------|--------------------------|--|
| Equipment   | Manufacturer                       | Model No.         | Inventory No. | Cal Date                 | Cal Due Date             |  |
| DC Power Supply                                   | Chroma                             | 62012P-80-60      | SEM011-11     | 2022-10-20               | 2023-10-19               |  |
| MXA Signal Analyzer                               | KEYSIGHT                           | N9020A            | SEM004-19     | 2023-03-21               | 2024-03-20               |  |
| Signal Generator                                  | KEYSIGHT                           | N5173B            | SEM006-05     | 2022-09-29               | 2023-09-28               |  |
| Measurement Software                              | TST PASS                           | TST PASS<br>V2.0  | N/A           | N/A                      | N/A                      |  |
| Coaxial Cable                                     | SGS                                | N/A               | SEM031-01     | 2022-07-08               | 2023-07-07               |  |
| Attenuator  | Huber+Suhner                       | 6620_SMA-50-<br>1 | SEM021-09     | 2022-04-01<br>2023-03-31 | 2023-03-31<br>2024-03-30 |  |
| Programmable<br>Temperature & Humidity<br>Chamber | Votsch<br>Industrietechnik<br>GmbH | VT 4002           | SEM002-15     | 2023-03-21               | 2024-03-20               |  |
| Power Sensor                                      | TST PASS                           | TSPS2023R         | SEM009-26     | 2022-04-02<br>2023-04-01 | 2023-04-01<br>2024-03-31 |  |
| Power Sensor                                      | KEYSIGHT                           | U2021XA           | SEM009-16     | 2023-03-21               | 2024-03-20               |  |



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| Peak Power spectrum density                       |                                    |                   |               |                          |                          |  |
|---|------------------------------------|-------------------|---------------|--------------------------|--------------------------|--|
| Equipment   | Manufacturer                       | Model No.         | Inventory No. | Cal Date                 | Cal Due Date             |  |
| DC Power Supply                                   | Chroma                             | 62012P-80-60      | SEM011-11     | 2022-10-20               | 2023-10-19               |  |
| MXA Signal Analyzer                               | KEYSIGHT                           | N9020A            | SEM004-19     | 2023-03-21               | 2024-03-20               |  |
| Signal Generator                                  | KEYSIGHT                           | N5173B            | SEM006-05     | 2022-09-29               | 2023-09-28               |  |
| Measurement Software                              | TST PASS                           | TST PASS<br>V2.0  | N/A           | N/A                      | N/A                      |  |
| Coaxial Cable                                     | SGS                                | N/A               | SEM031-01     | 2022-07-08               | 2023-07-07               |  |
| Attenuator  | Huber+Suhner                       | 6620_SMA-50-<br>1 | SEM021-09     | 2022-04-01<br>2023-03-31 | 2023-03-31<br>2024-03-30 |  |
| Programmable<br>Temperature & Humidity<br>Chamber | Votsch<br>Industrietechnik<br>GmbH | VT 4002           | SEM002-15     | 2023-03-21               | 2024-03-20               |  |

| Radiated Emissions (Above 1GHz) |                 |                     |               |            |              |  |
|---------------------------------|-----------------|---------------------|---------------|------------|--------------|--|
| Equipment                       | Manufacturer    | Model No.           | Inventory No. | Cal Date   | Cal Due Date |  |
| 3m Semi-Anechoic<br>Chamber     | AUDIX           | N/A                 | SEM001-02     | 2022-04-02 | 2025-04-01   |  |
| Signal Analyzer                 | Rohde & Schwarz | FSV40               | SEM008-04     | 2023-03-20 | 2024-03-19   |  |
| Horn Antenna                    | Rohde&Schwarz   | HF907               | SEM003-07     | 2022-07-24 | 2024-07-23   |  |
| Microwave system<br>amplifier   | Agilent         | 83017A              | SEM005-25     | 2022-09-21 | 2023-09-20   |  |
| Measurement Software            | AUDIX           | e3 V8.2014-6-<br>27 | N/A           | N/A        | N/A          |  |
| Coaxial Cable                   | SGS             | N/A                 | SEM026-01     | 2022-07-08 | 2023-07-07   |  |

| Radiated Emissions which fall in the restricted bands |                 |                     |               |            |              |  |
|---|-----------------|---------------------|---------------|------------|--------------|--|
| Equipment   | Manufacturer    | Model No.           | Inventory No. | Cal Date   | Cal Due Date |  |
| 3m Semi-Anechoic<br>Chamber                           | AUDIX           | N/A                 | SEM001-02     | 2022-04-02 | 2025-04-01   |  |
| Signal Analyzer                                       | Rohde & Schwarz | FSV40               | SEM008-04     | 2023-03-20 | 2024-03-19   |  |
| Horn Antenna  | Rohde&Schwarz   | HF907               | SEM003-07     | 2022-07-24 | 2024-07-23   |  |
| Microwave system<br>amplifier                         | Agilent         | 83017A              | SEM005-25     | 2022-09-21 | 2023-09-20   |  |
| Measurement Software                                  | AUDIX           | e3 V8.2014-6-<br>27 | N/A           | N/A        | N/A          |  |
| Coaxial Cable   | SGS             | N/A                 | SEM026-01     | 2022-07-08 | 2023-07-07   |  |



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| Frequency Stability                               |                                    |                   |               |                          |                          |
|---|------------------------------------|-------------------|---------------|--------------------------|--------------------------|
| Equipment   | Manufacturer                       | Model No.         | Inventory No. | Cal Date                 | Cal Due Date             |
| DC Power Supply                                   | Chroma                             | 62012P-80-60      | SEM011-11     | 2022-10-20               | 2023-10-19               |
| MXA Signal Analyzer                               | KEYSIGHT                           | N9020A            | SEM004-19     | 2023-03-21               | 2024-03-20               |
| Signal Generator                                  | KEYSIGHT                           | N5173B            | SEM006-05     | 2022-09-29               | 2023-09-28               |
| Measurement Software                              | TST PASS                           | TST PASS<br>V2.0  | N/A           | N/A                      | N/A                      |
| Coaxial Cable                                     | SGS                                | N/A               | SEM031-01     | 2022-07-08               | 2023-07-07               |
| Attenuator  | Huber+Suhner                       | 6620_SMA-50-<br>1 | SEM021-09     | 2022-04-01<br>2023-03-31 | 2023-03-31<br>2024-03-30 |
| Programmable<br>Temperature & Humidity<br>Chamber | Votsch<br>Industrietechnik<br>GmbH | VT 4002           | SEM002-15     | 2023-03-21               | 2024-03-20               |

| Radiated Emissions (Below 1GHz) |                      |                     |               |            |              |  |
|---------------------------------|----------------------|---------------------|---------------|------------|--------------|--|
| Equipment                       | Manufacturer         | Model No.           | Inventory No. | Cal Date   | Cal Due Date |  |
| 3m Semi-Anechoic<br>Chamber     | ETS-LINDGREN         | N/A                 | SEM001-01     | 2020-07-19 | 2023-07-18   |  |
| MXE EMI Receiver                | Agilent Technologies | N9038A              | SEM004-15     | 2022-10-20 | 2023-10-19   |  |
| BiConiLog Antenna               | ETS-LINDGREN         | 3142C               | SEM003-01     | 2021-09-17 | 2023-09-16   |  |
| Pre-Amplifier                   | Agilent Technologies | 8447D               | SEM005-01     | 2023-03-20 | 2024-03-19   |  |
| Measurement Software            | AUDIX                | e3 V8.2014-6-<br>27 | N/A           | N/A        | N/A          |  |
| Coaxial Cable                   | SGS                  | N/A                 | SEM025-01     | 2022-07-08 | 2023-07-07   |  |
| Loop Antenna                    | ETS-Lindgren         | 6502                | SEM003-08     | 2021-11-30 | 2023-11-29   |  |

| General used equipmen              | t   |           |               |            |              |
|------------------------------------|---|-----------|---------------|------------|--------------|
| Equipment                          | Manufacturer                                    | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| Humidity/ Temperature<br>Indicator | Mingle  | N/A       | SEM002-08     | 2022-09-04 | 2023-09-03   |
| Humidity/ Temperature<br>Indicator | Anymetre  | TH101B    | SEM002-09     | 2022-09-04 | 2023-09-03   |
| Barometer                          | Changchun<br>Meteorological<br>Industry Factory | DYM3      | SEM002-01     | 2023-03-23 | 2024-03-22   |



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# 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna 1: 2.85dBi; Antenna 2: 2.92dBi; the directional gain is 5.89 dBi.

Antenna location: Refer to internal photo.

Directional gain = 
$$10 \log \left[ \left( 10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20} \right)^2 / N_{\text{ANT}} \right] \text{dBi}$$

### 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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#### **Radio Spectrum Matter Test Results** 7

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9) Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

|   | Conducted limit(dBµV) |           |  |  |  |
|---|-----------------------|-----------|--|--|--|
| Frequency of emission(MHz)                      | Quasi-peak            | Average   |  |  |  |
| 0.15-0.5  | 66 to 56*             | 56 to 46* |  |  |  |
| 0.5-5   | 56                    | 46        |  |  |  |
| 5-30  | 60                    | 50        |  |  |  |
| *Decreases with the logarithm of the frequency. |                       |           |  |  |  |

### 7.1.1 E.U.T. Operation

| Operating Enviro | onment: |           |           |                            |      |
|------------------|---------|-----------|-----------|----------------------------|------|
| Temperature:     | 24.9 °C | Humidity: | 50.6 % RH | Atmospheric Pressure: 1008 | mbar |

### 7.1.2 Test Mode Description

| Pre-scan / | Mode   |  |
|------------|--|--|
| Final test | Code   | Description  |
| Pre-scan   | 05   | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test | 06   | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with<br>all modulation types. All data rates for each modulation type have been<br>tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;<br>data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @<br>MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the<br>worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br>802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW80), final test modes are considering the modulation and<br>worse data rates. Only the data of worst case is recorded in the report.   |
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TX mode (U-NII-2C) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case Pre-scan 07 of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a: data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of Pre-scan 08 IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

|      |       | Test Receiver |
|------|-------|---------------|
|      |       | =             |
|      |       |               |
|      |       |               |
| 00cm |       |               |
|      | 80 cm |               |

### 7.1.3 Test Setup Diagram



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#### 7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 $\mu$ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



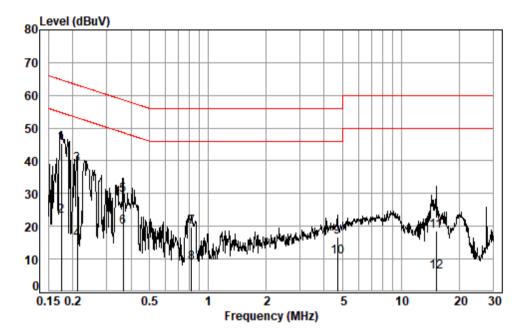
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Test Mode: 06; Line: Live line

Site : Shielding Room Condition: Line Job No. : 01904AT Test mode: 06

|     |         | Cable | LISN   | Read  |       | Limit | 0ver   |         |
|-----|---------|-------|--------|-------|-------|-------|--------|---------|
|     | Freq    | Loss  | Factor | Level | Level | Line  | Limit  | Remark  |
|     | MHz     | dB    | dB     | dBuV  | dBuV  | dBuV  | dB     |         |
| 1 * | 0.1749  | 0.03  | 9.62   | 35.81 | 45.46 | 64.72 | -19.26 | QP      |
| 2   | 0.1749  | 0.03  | 9.62   | 13.41 | 23.06 | 54.72 | -31.66 | Average |
| 3   | 0.2117  | 0.04  | 9.62   | 29.21 | 38.87 | 63.14 | -24.27 | QP      |
| 4   | 0.2117  | 0.04  | 9.62   | 6.11  | 15.77 | 53.14 | -37.37 | Average |
| 5   | 0.3653  | 0.05  | 9.62   | 19.89 | 29.56 | 58.61 | -29.05 | QP      |
| 6*  | 0.3653  | 0.05  | 9.62   | 10.13 | 19.80 | 48.61 | -28.81 | Average |
| 7   | 0.8217  | 0.07  | 9.62   | 10.17 | 19.86 | 56.00 | -36.14 | QP      |
| 8   | 0.8217  | 0.07  | 9.62   | -0.85 | 8.84  | 46.00 | -37.16 | Average |
| 9   | 4.6964  | 0.15  | 9.67   | 6.95  | 16.77 | 56.00 | -39.23 | QP      |
| 10  | 4.6964  | 0.15  | 9.67   | 0.76  | 10.58 | 46.00 | -35.42 | Average |
| 11  | 15.2261 | 0.14  | 9.85   | 8.53  | 18.52 | 60.00 | -41.48 | QP      |
| 12  | 15.2261 | 0.14  | 9.85   | -3.78 | 6.21  | 50.00 | -43.79 | Average |



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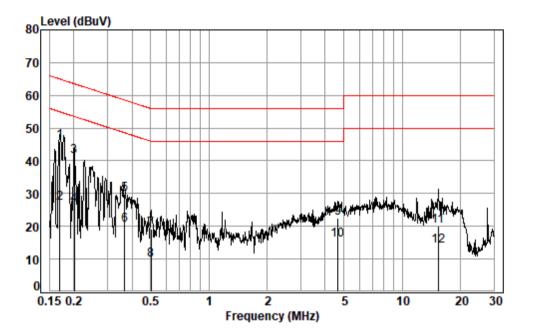
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Test Mode: 06; Line: Neutral Line

Site : Shielding Room Condition: Neutral Job No. : 01904AT Test mode: 06

|    |   |         | Cable | LISN   | Read  |       | Limit | 0ver   |         |
|----|---|---------|-------|--------|-------|-------|-------|--------|---------|
|    |   | Freq    | Loss  | Factor | Level | Level | Line  | Limit  | Remark  |
|    | - | MHz     | dB    | dB     | dBuV  | dBuV  | dBuV  | dB     |         |
| 1  | * | 0.1694  | 0.03  | 9.62   | 36.32 | 45.97 | 64.99 | -19.02 | QP      |
| 2  |   | 0.1694  | 0.03  | 9.62   | 17.50 | 27.15 | 54.99 | -27.84 | Average |
| 3  |   | 0.2018  | 0.04  | 9.62   | 31.82 | 41.48 | 63.54 | -22.06 | QP      |
| 4  | * | 0.2018  | 0.04  | 9.62   | 16.66 | 26.32 | 53.54 | -27.22 | Average |
| 5  |   | 0.3673  | 0.05  | 9.62   | 20.00 | 29.67 | 58.56 | -28.89 | QP      |
| 6  |   | 0.3673  | 0.05  | 9.62   | 10.63 | 20.30 | 48.56 | -28.26 | Average |
| 7  |   | 0.5020  | 0.06  | 9.62   | 9.41  | 19.09 | 56.00 | -36.91 | QP      |
| 8  |   | 0.5020  | 0.06  | 9.62   | 0.04  | 9.72  | 46.00 | -36.28 | Average |
| 9  |   | 4.6715  | 0.15  | 9.68   | 12.68 | 22.51 | 56.00 | -33.49 | QP      |
| 10 |   | 4.6715  | 0.15  | 9.68   | 6.10  | 15.93 | 46.00 | -30.07 | Average |
| 11 |   | 15.3883 | 0.14  | 9.95   | 9.99  | 20.08 | 60.00 | -39.92 | QP      |
| 12 |   | 15.3883 | 0.14  | 9.95   | 3.86  | 13.95 | 50.00 | -36.05 | Average |



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### 7.2 Duty Cycle

| Test Requirement | KDB 789033 D02 II B 1 |
|------------------|-----------------------|
| Test Method:     | KDB 789033 II B 1     |

### 7.2.1 E.U.T. Operation

| Operating Enviro | nment:  |           |           |                                 |  |
|------------------|---------|-----------|-----------|---------------------------------|--|
| Temperature:     | 24.9 °C | Humidity: | 68.7 % RH | Atmospheric Pressure: 1008 mbar |  |

### 7.2.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description   |
|--------------------------|--------------|---|
| Final test               | 05           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
| Final test               | 06           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.   |
| Final test               | 07           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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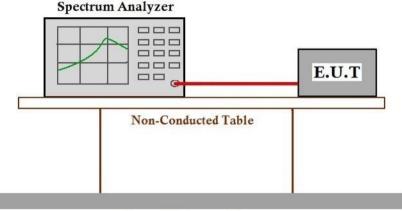


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TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of Final test 08 IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.3 99% Bandwidth

| Test Requirement | N/A             |
|------------------|-----------------|
| Test Method:     | KDB 789033 II D |

### 7.3.1 E.U.T. Operation

Operating Environment: Temperature: 24.9 °C

Humidity: 68.7 % RH

Atmospheric Pressure: 1008 mbar

### 7.3.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description   |
|--------------------------|--------------|---|
| Final test               | 05           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
| Final test               | 06           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test               | 07           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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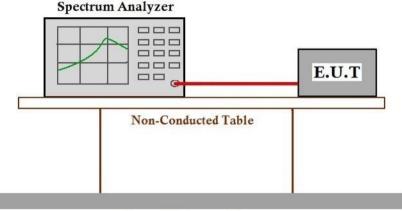


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TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of Final test 08 IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.3.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.4 26dB Emission bandwidth

| Test Requirement | 47 CFR Part 15, Subpart E 15.407 (a) |
|------------------|--------------------------------------|
| Test Method:     | KDB 789033 D02 II C 1                |

### 7.4.1 E.U.T. Operation

**Operating Environment:** Temperature: 24.9 °C

Humidity: 68.7 % RH

Atmospheric Pressure: 1008 mbar

### 7.4.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description   |
|--------------------------|--------------|---|
| Final test               | 05           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
| Final test               | 06           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.   |
| Final test               | 07           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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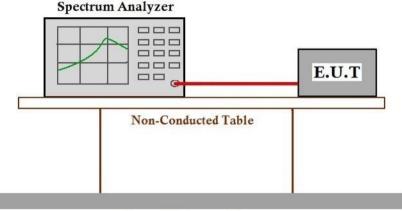


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TX mode (U-NII-3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

| Test Requirement | 47 CFR Part 15, Subpart E 15.407 (e) |
|------------------|--------------------------------------|
| Test Method:     | KDB 789033 D02 II C 2                |

Limit:

| Frequency band(MHz) | Limit    |
|---------------------|----------|
| 5725-5850           | ≥500 kHz |

### 7.5.1 E.U.T. Operation

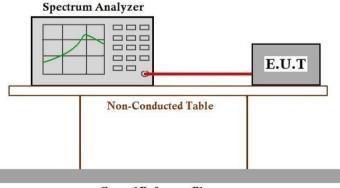
Operating Environment:

| Temperature: | 24.9 °C | Humidity:  | 68.7 % RH | Atmospheric Pressure: | 1008 | mbar |
|--------------|---------|------------|-----------|-----------------------|------|------|
| remperaturer | 2.1.0 0 | riannaity. |           |                       |      | modi |

### 7.5.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description  |
|--------------------------|--------------|--|
| Final test               | 08           | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.5.4 Measurement Procedure and Data

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### 7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a) Test Method: KDB 789033 D02 II E

Limit:

| Frequency | band(MHz)        | Limit  |
|-----------|------------------|--|
| E1E0      | 5250             | ≤1W(30dBm) for master device   |
| 5150      | -5250            | ≤250mW(24dBm) for client device  |
| 5250      | -5350            | ≤250mW(24dBm) for client device or 11dBm+10logB*   |
| 5470      | -5725            | ≤250mW(24dBm) for client device or 11dBm+10logB*   |
| 5725      | -5850            | ≤1W(30dBm)   |
| Remark:   | * Where B is the | 26dB emission bandwidth in MHz.  |
|           |                  | onducted output power must be measured over any interval of smission using instrumentation calibrated in terms of an rms-<br>je. |

### 7.6.1 E.U.T. Operation

**Operating Environment:** Temperature: 24.9 °C

Humidity: 68.7 % RH

Atmospheric Pressure: 1008 mbar

### 7.6.2 Test Mode Description

| 6.2 Test Mode Description |   | Description   | on  |
|---------------------------|---|---|---|
|                           | Pre-scan /<br>Final test  | Mode<br>Code  | Description   |
|                           | Final test  | 05  | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
|                           | Final test  | 06  | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with<br>all modulation types. All data rates for each modulation type have been<br>tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;<br>data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @<br>MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the<br>worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br>802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW80), final test modes are considering the modulation and<br>worse data rates. Only the data of worst case is recorded in the report.  |
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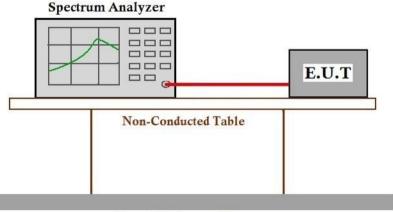


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TX mode (U-NII-2C)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case Final test 07 of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80): data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. TX mode (U-NII-3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of Final test 08 IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80): data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.6.3 Test Setup Diagram



Ground Reference Plane

### 7.6.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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### 7.7 Peak Power spectrum density

Test Requirement47 CFR Part 15, Subpart E 15.407 (a)Test Method:KDB 789033 D02 II F

Limit:

| Frequency band(MHz) |  | Limit   |
|---------------------|--|---|
| 5150-5250           |  | ≤17dBm in 1MHz for master device  |
|                     |  | ≤11dBm in 1MHz for client device  |
| 5250-5350           |  | ≤11dBm in 1MHz for client device  |
| 5470-5725           |  | ≤11dBm in 1MHz for client device  |
| 5725-5850           |  | ≤30dBm in 500 kHz   |
| Remark:             |  | power spectral density is measured as a conducted emission by on of a calibrated test instrument to the equipment under test. |

### 7.7.1 E.U.T. Operation

| Operating Enviro | onment: |           |           |                              |     |
|------------------|---------|-----------|-----------|------------------------------|-----|
| Temperature:     | 24.9 °C | Humidity: | 68.7 % RH | Atmospheric Pressure: 1008 m | bar |

### 7.7.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description  |
|--------------------------|--------------|--|
| Final test               | 05           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test               | 06           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with<br>all modulation types. All data rates for each modulation type have been<br>tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;<br>data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @<br>MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the<br>worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br>802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); final test modes are considering the modulation and<br>worse data rates. Only the data of worst case is recorded in the report.  |



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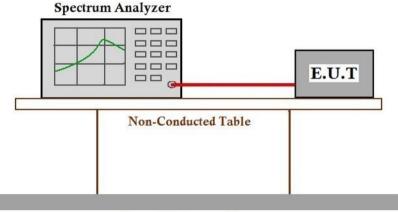


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| Final test | 07 | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with<br>all modulation types. All data rates for each modulation type have been<br>tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;<br>data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @<br>MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the<br>worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br>802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW80), final test modes are considering the modulation and<br>worse data rates. Only the data of worst case is recorded in the report.   |
|------------|----|--|
| Final test | 08 | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |

### 7.7.3 Test Setup Diagram



**Ground Reference Plane** 

### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.8 Radiated Emissions (Above 1GHz)

| Test Requirement | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) |
|------------------|--|
| Test Method:     | KDB 789033 D02 II G                                    |

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement<br>distance(meters) |
|----------------|----------------------------------|---------------------------------|
| Above 1GHz     | 500                              | 3                               |
|                |                                  |                                 |

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

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(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.8.1 E.U.T. Operation

Operating Environment:

| Temperature: | 24.2 °C | Humidity: | 57.3 % RH | Atmospheric Pressure: | 1008 | mbar |
|--------------|---------|-----------|-----------|-----------------------|------|------|
|              |         |           |           |                       |      |      |

### 7.8.2 Test Mode Description

| Pre-scan /<br>Final test | Mod<br>Cod | Description  |
|--------------------------|------------|--|
| Final test               | 05         | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ac(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test               | 06         | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been   |
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Final test

Final test

07

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tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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TX mode (U-NII-3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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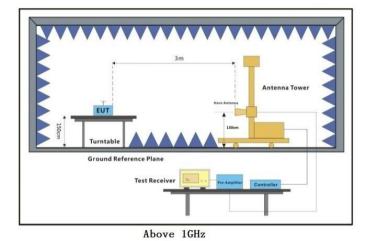
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### 7.8.3 Test Setup Diagram





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### 7.8.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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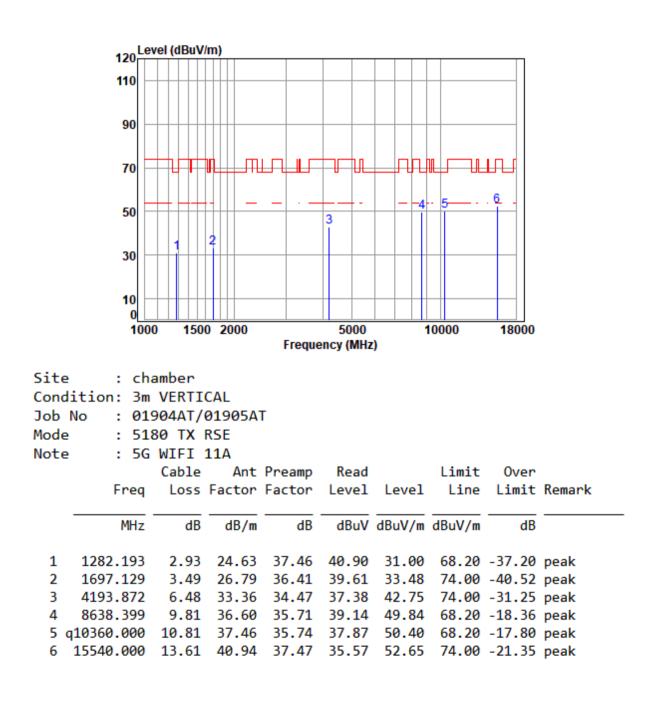
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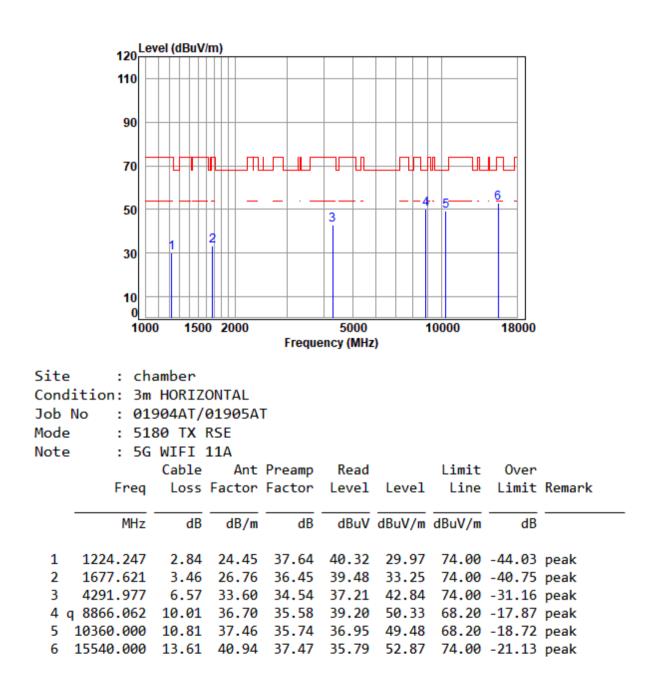
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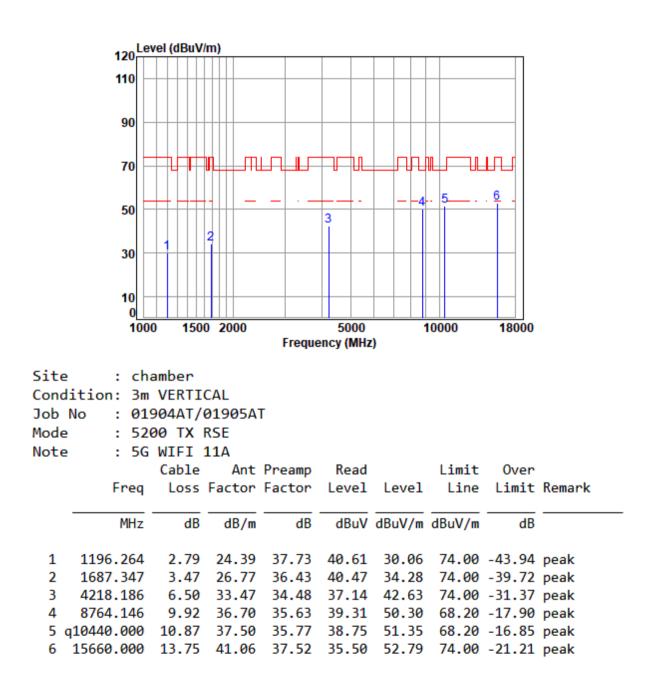
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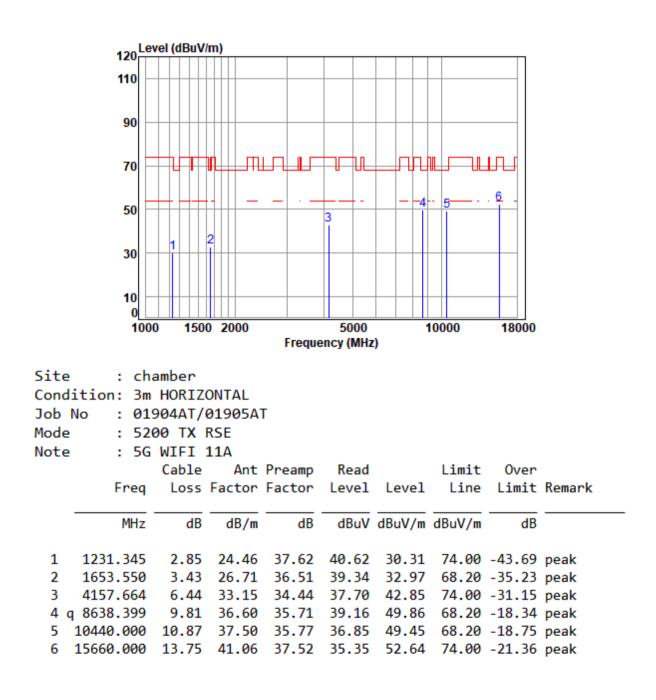
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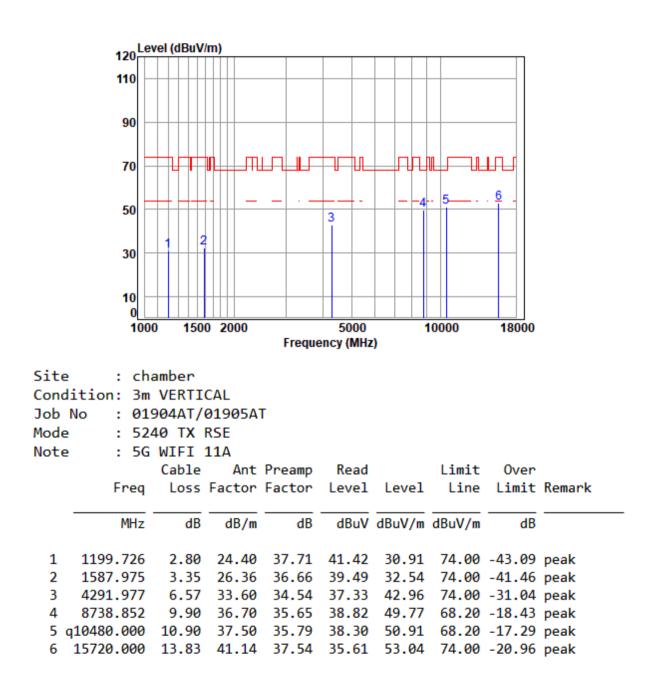
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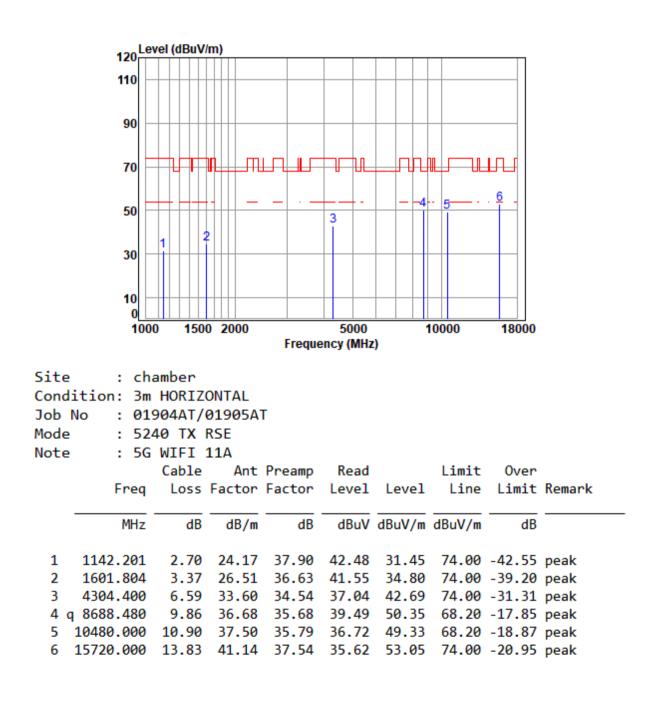
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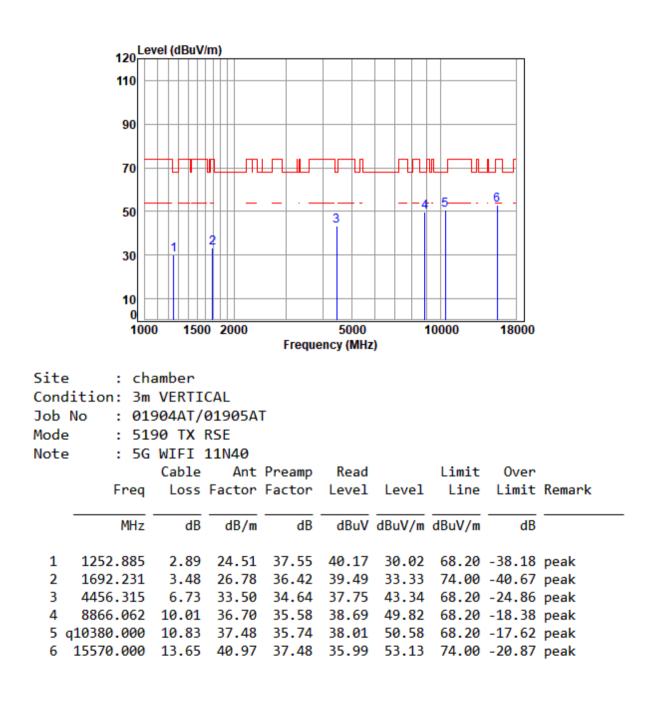
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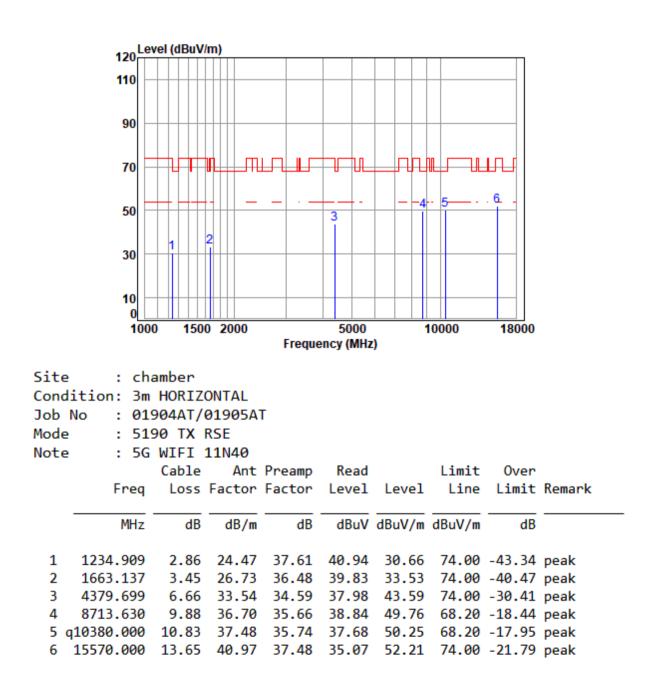
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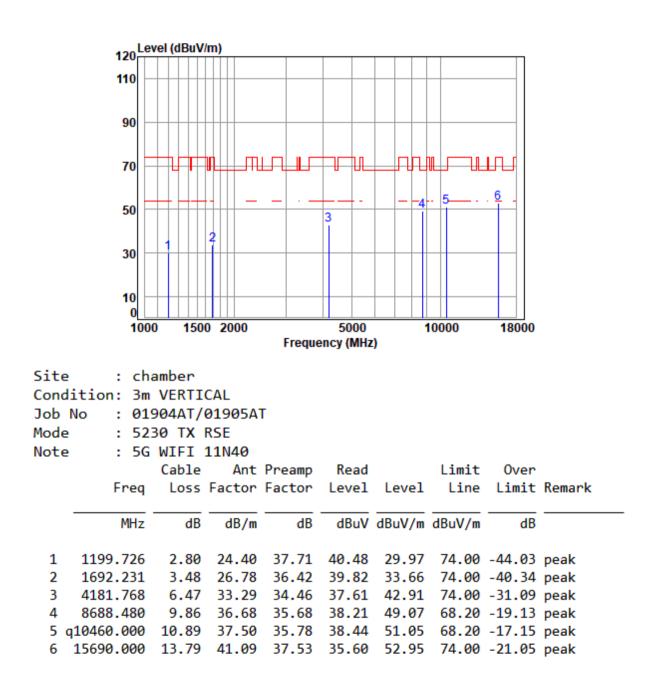
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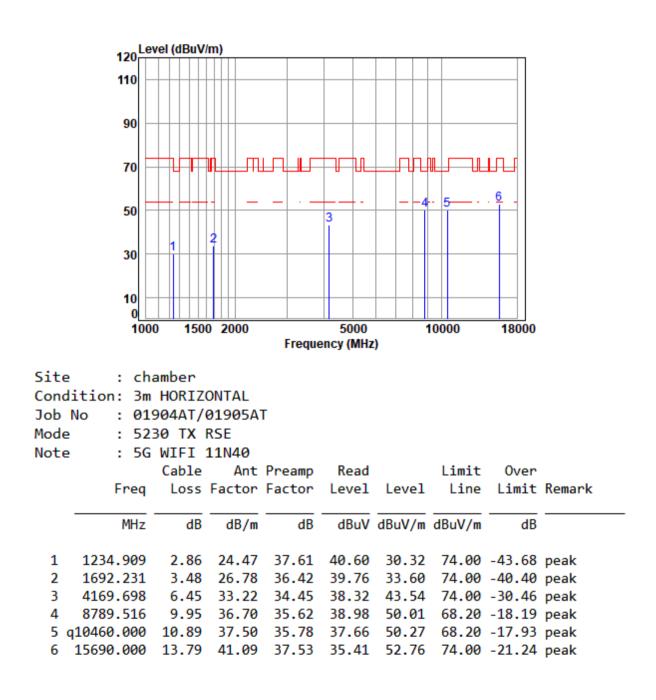
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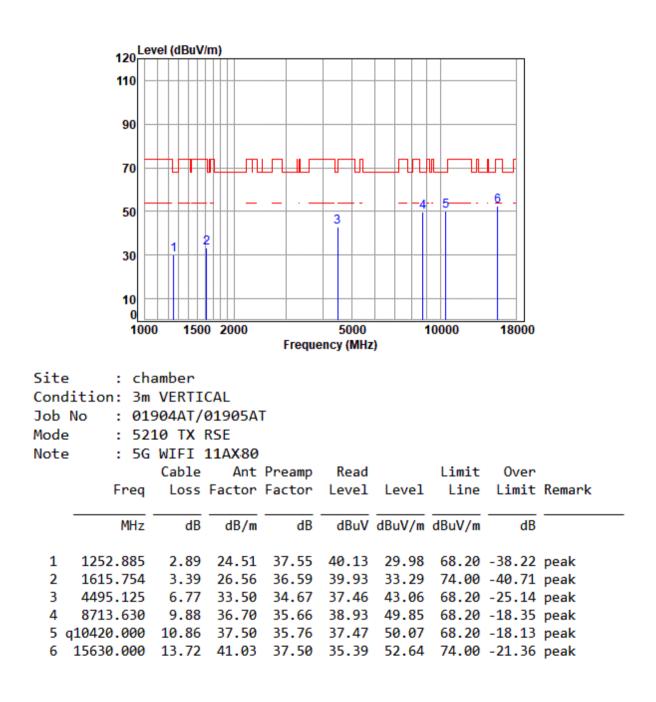
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Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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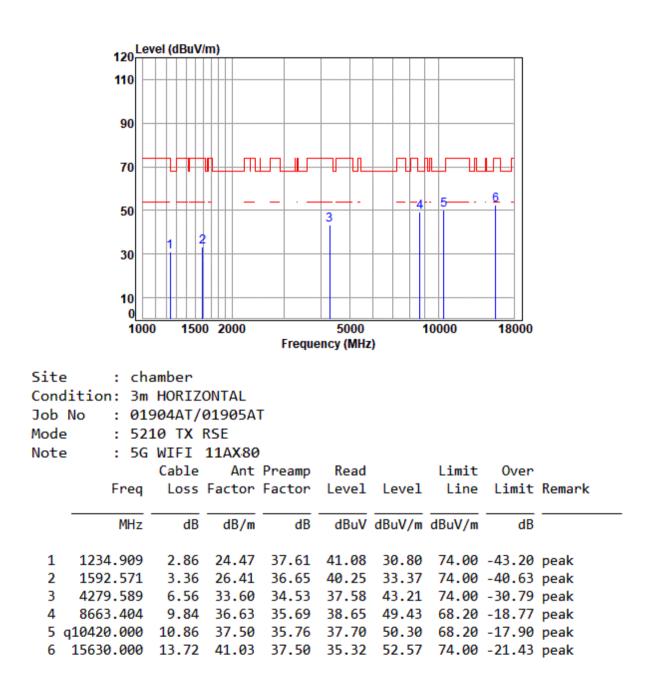
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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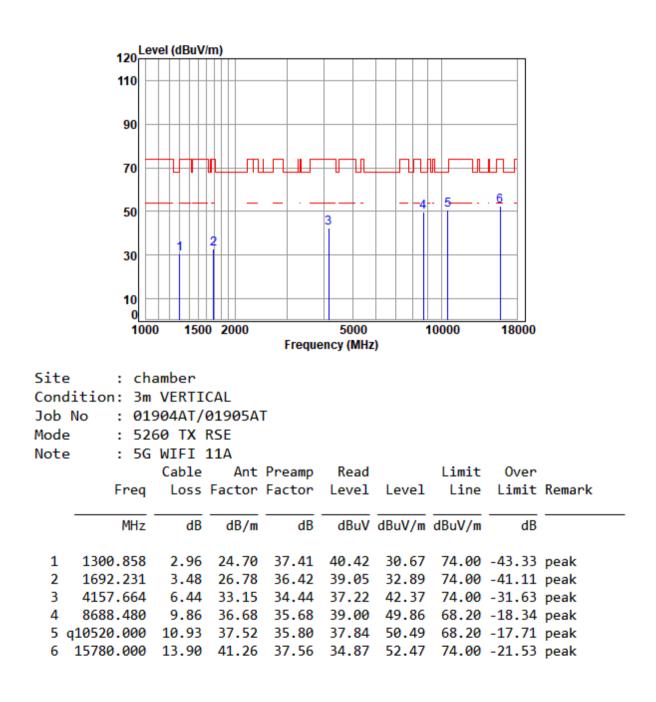
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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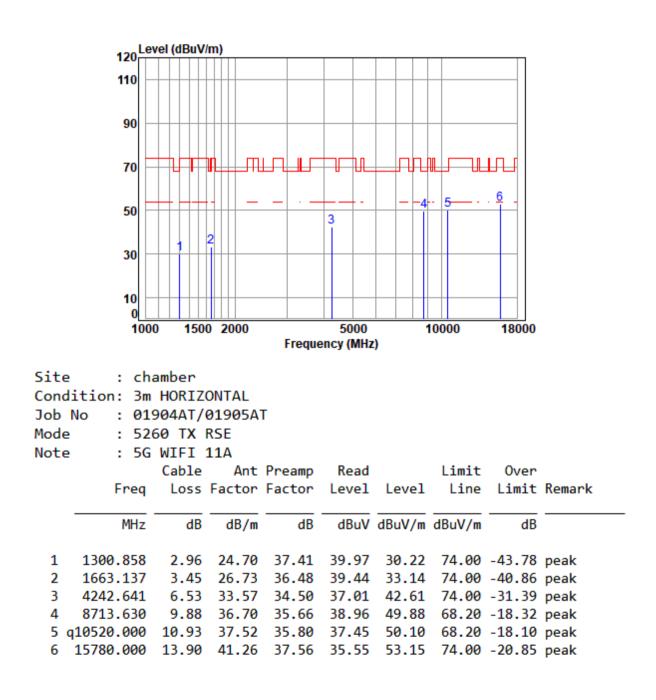
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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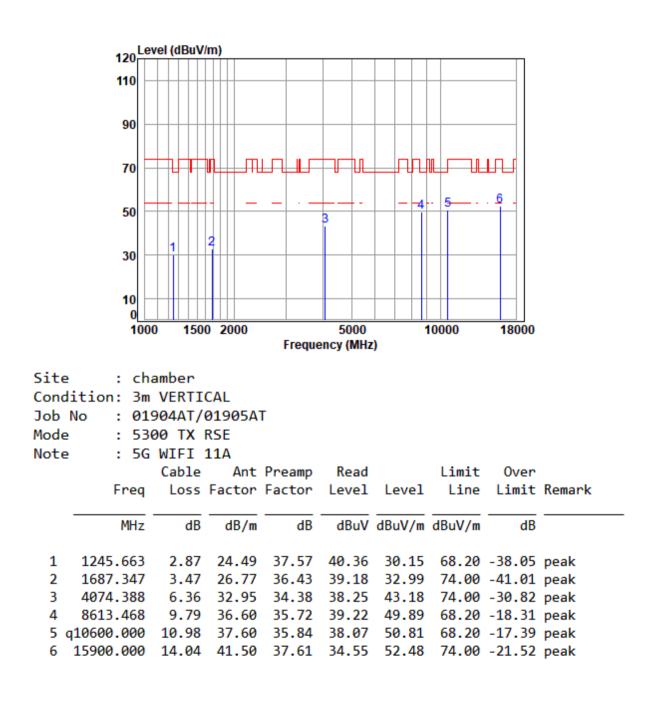
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle





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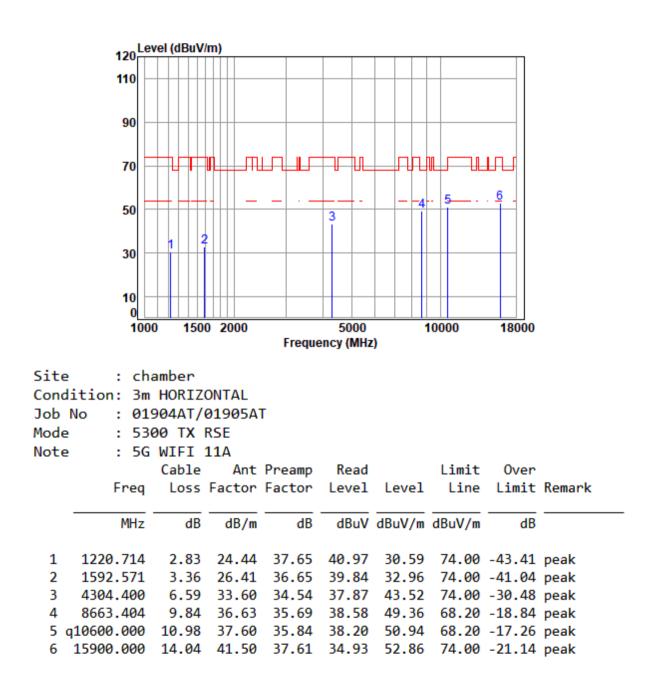
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle





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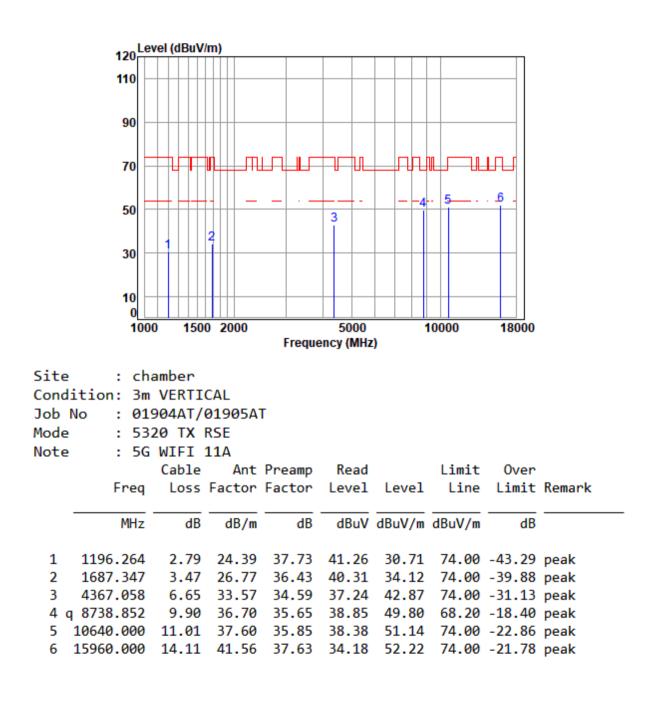
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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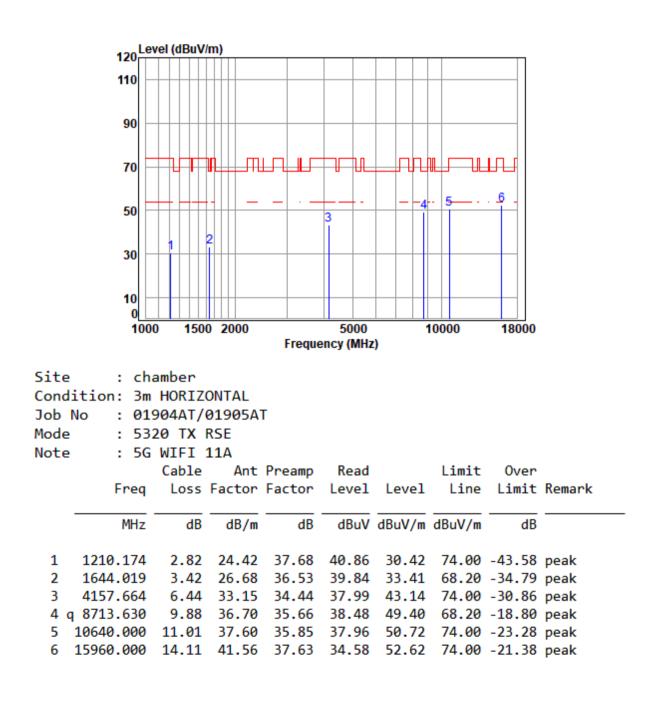
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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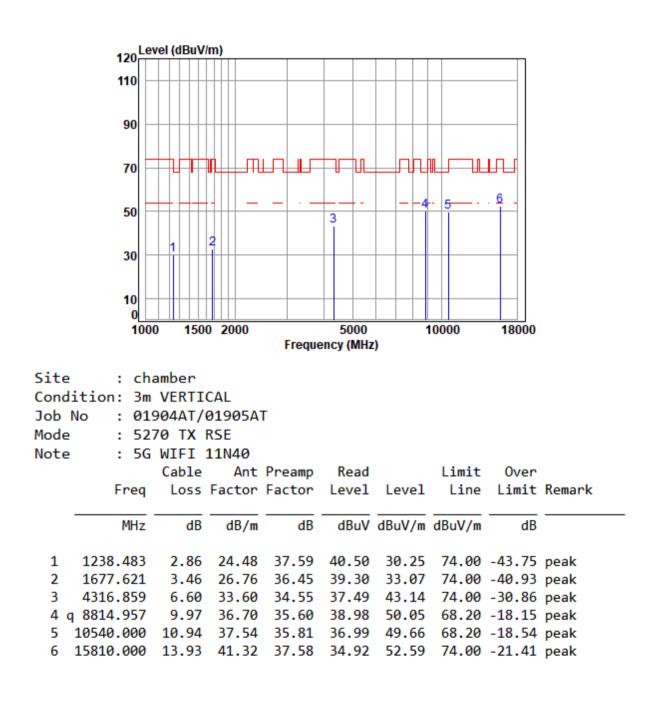
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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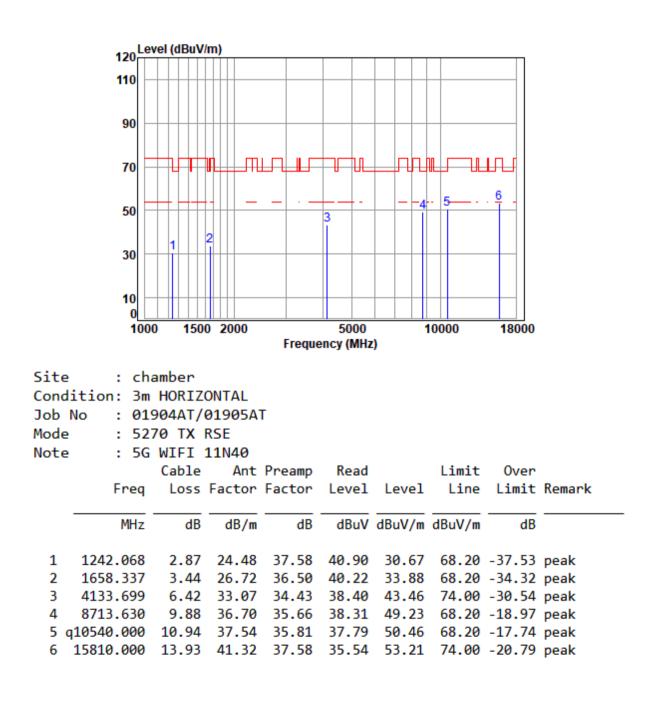
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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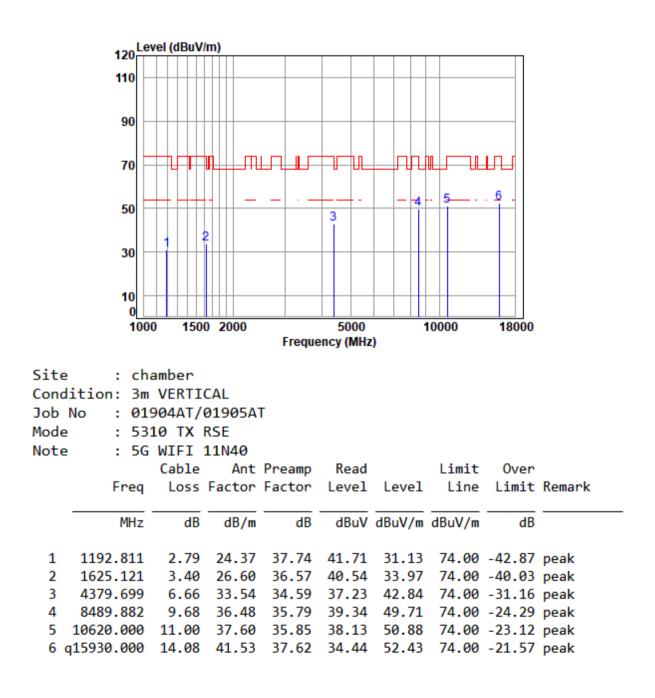
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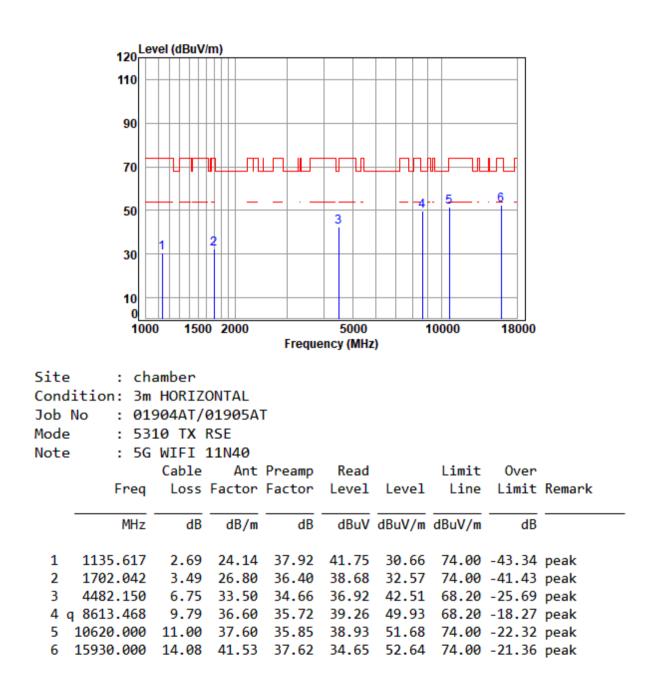
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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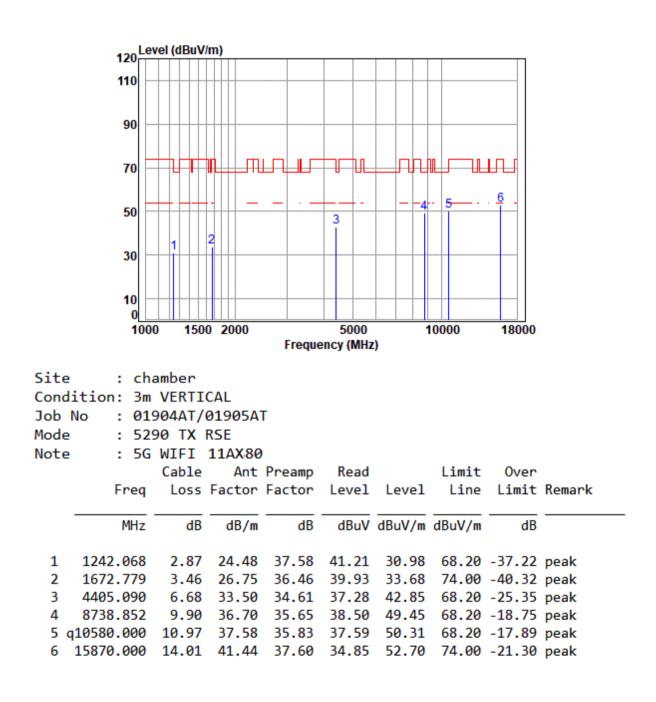
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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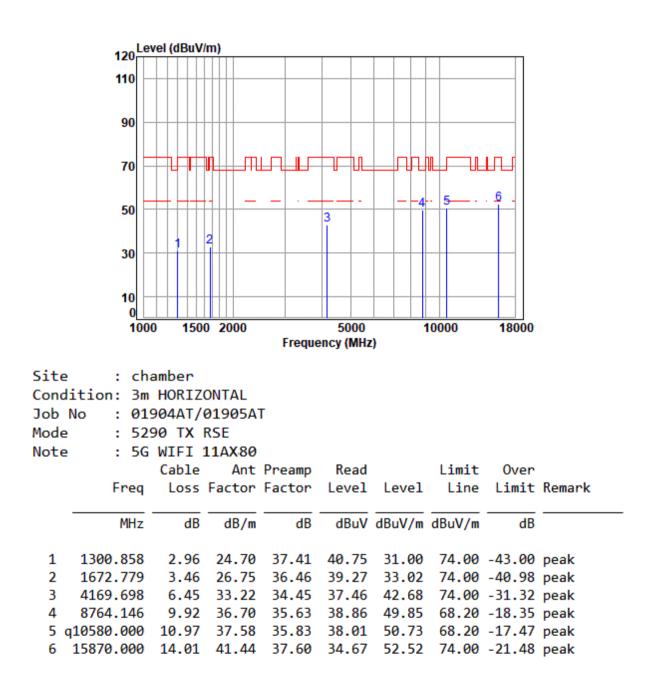
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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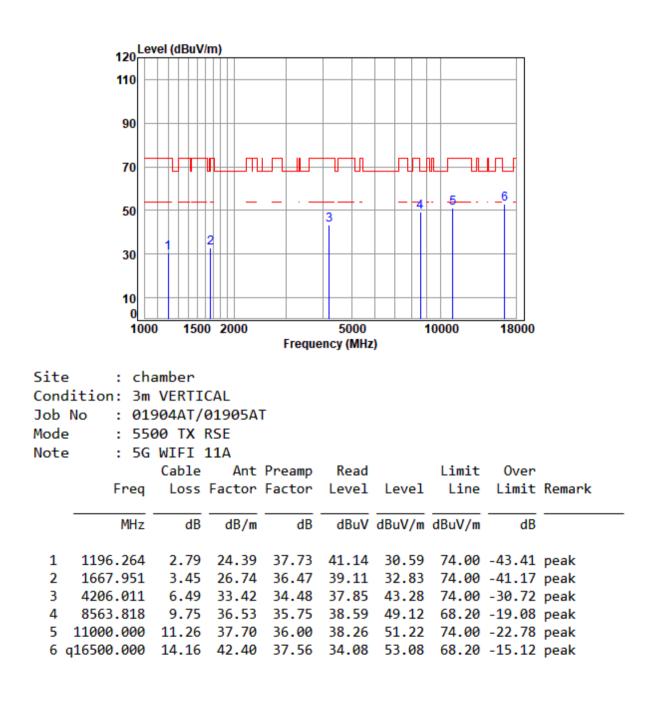
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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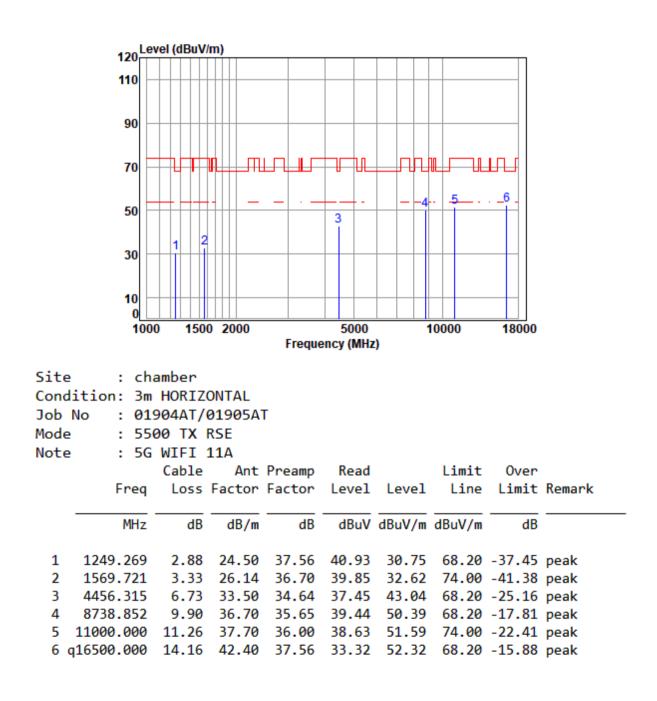
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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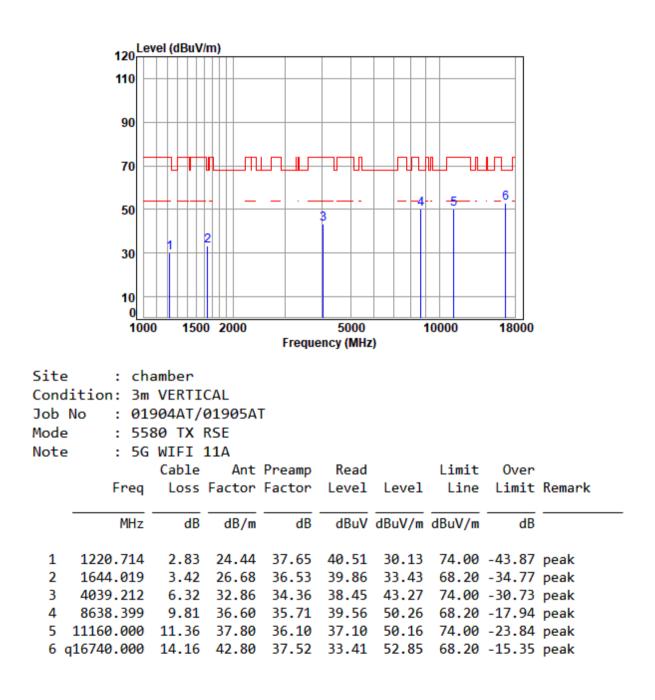
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle





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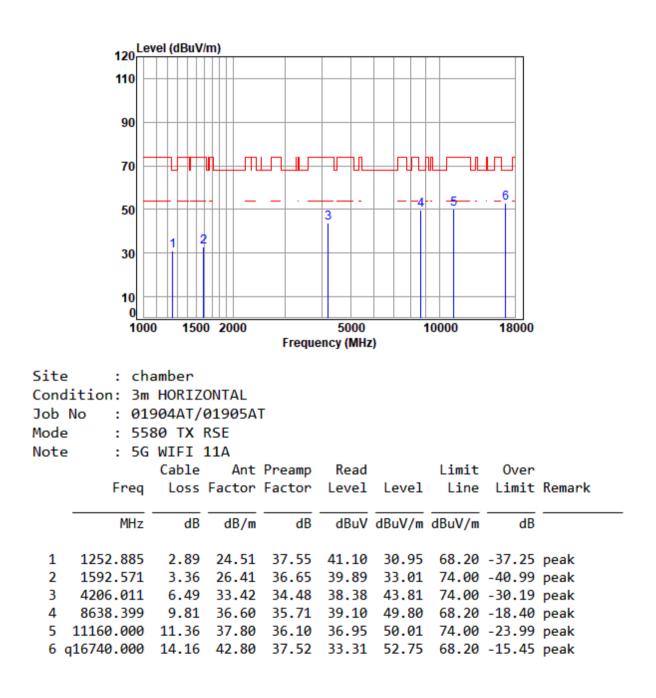
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle





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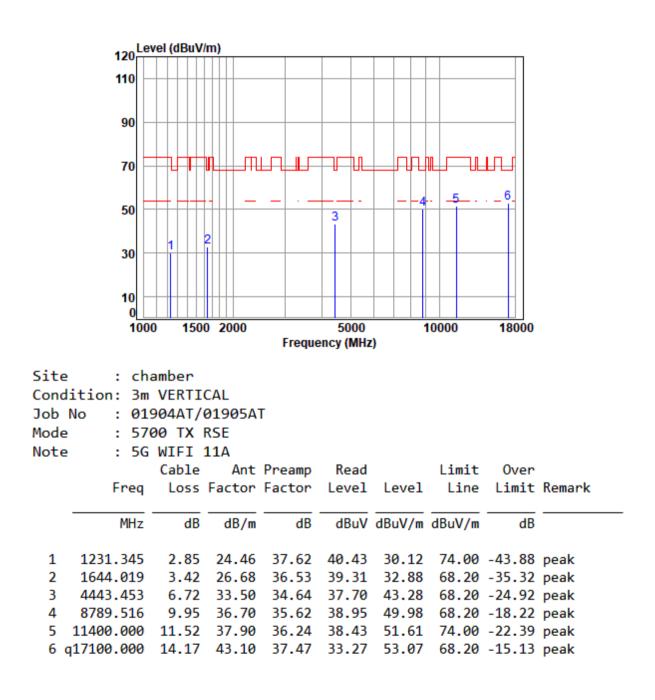
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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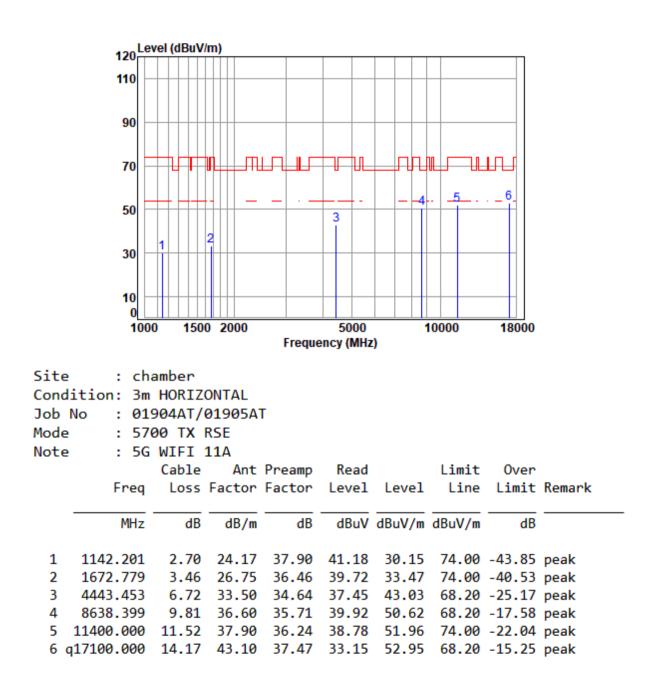
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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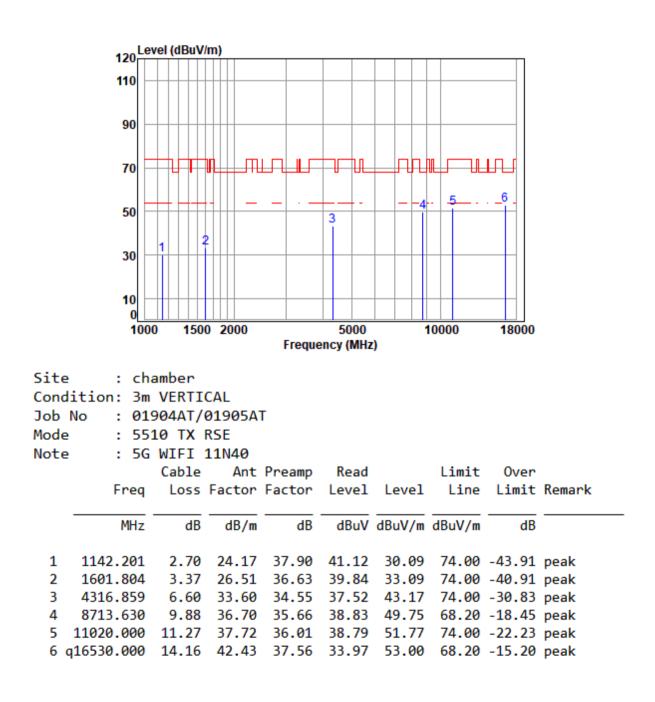
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Report No.: SZCR230600190405 Page: 64 of 533

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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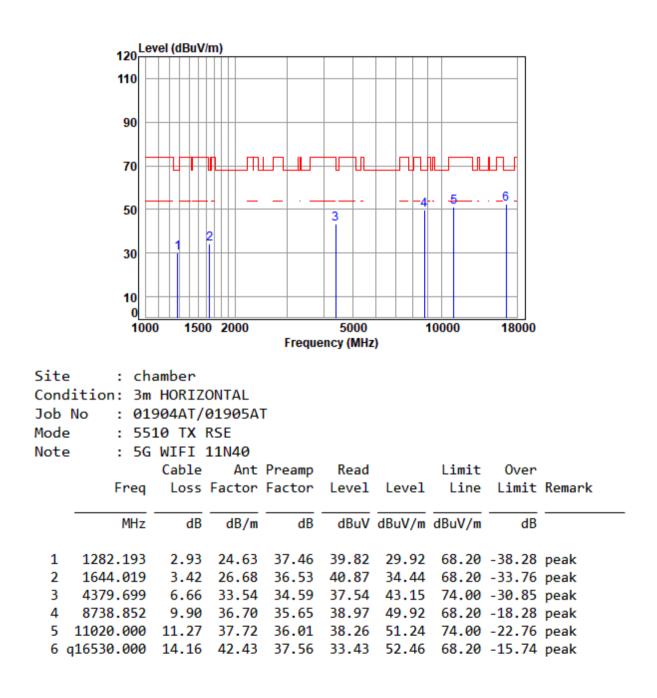
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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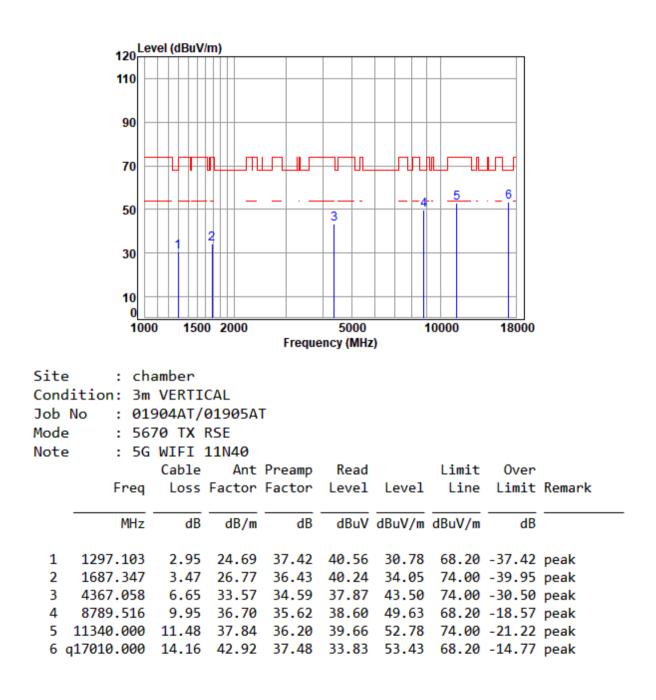
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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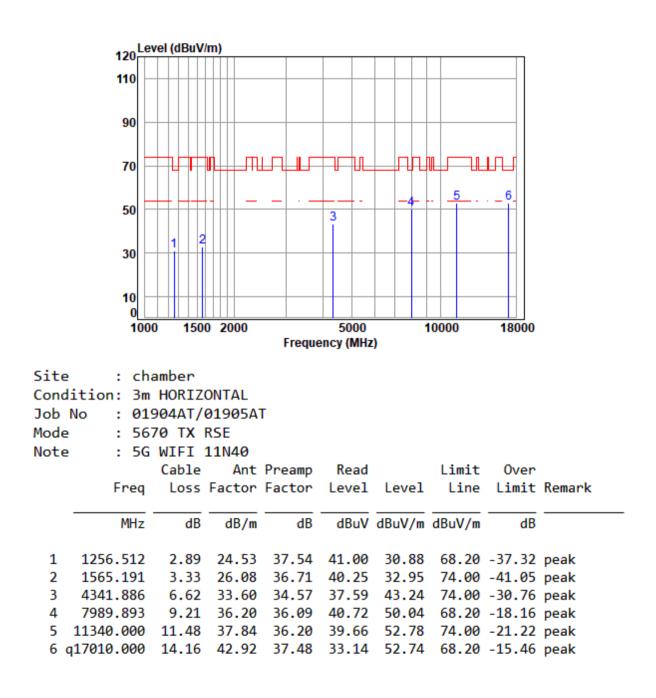
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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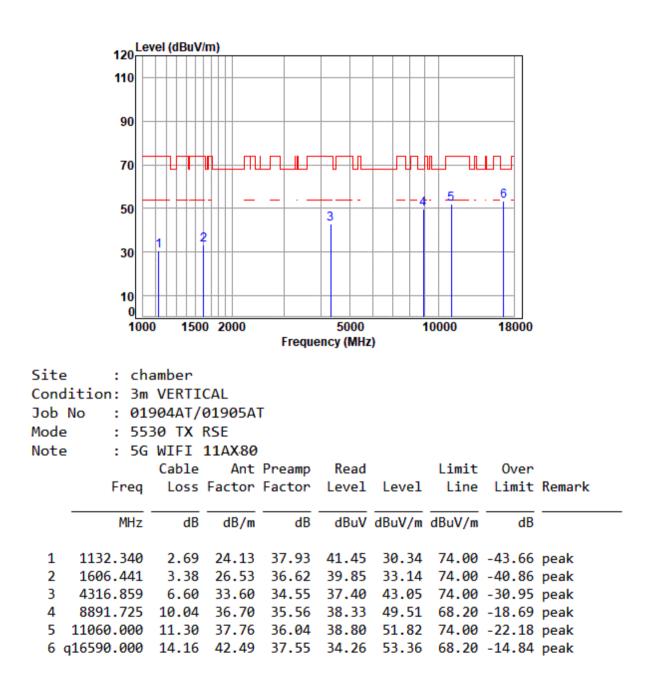
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low





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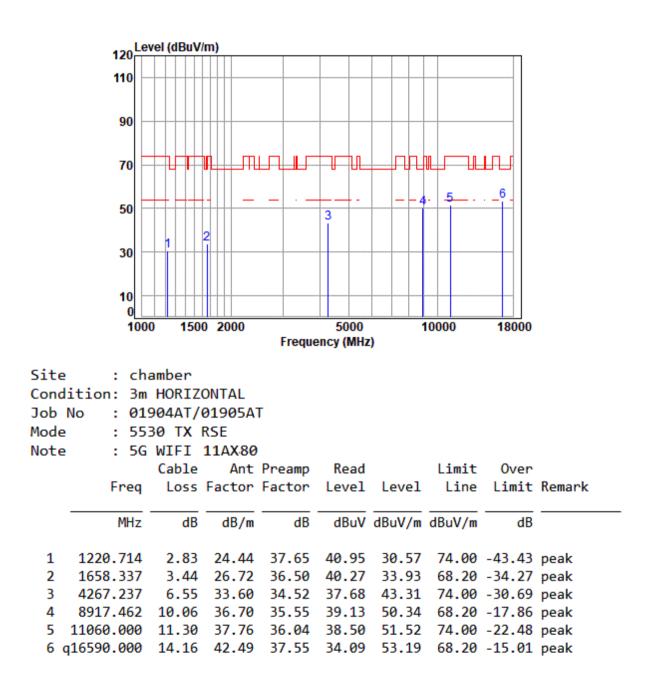
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low





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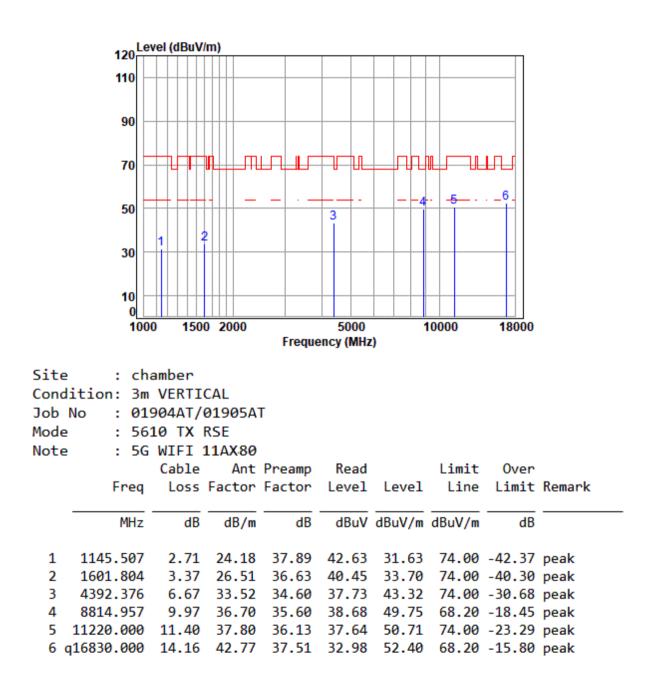
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High





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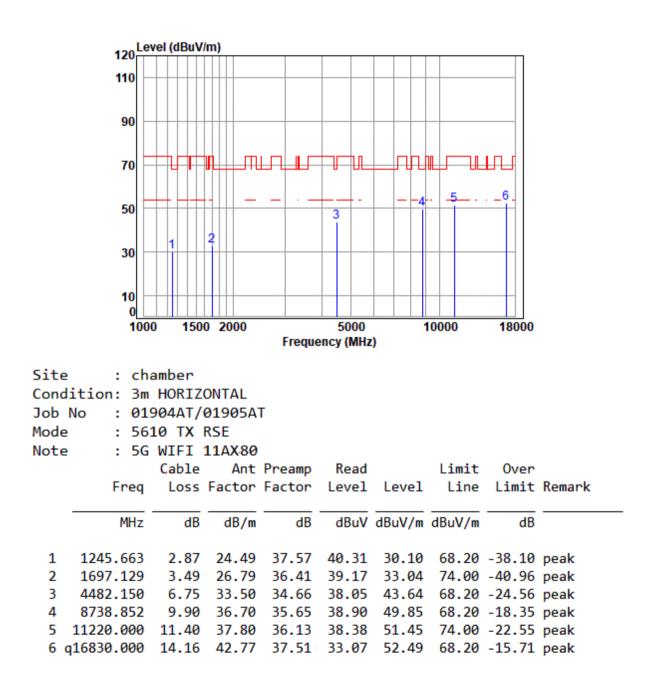
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High





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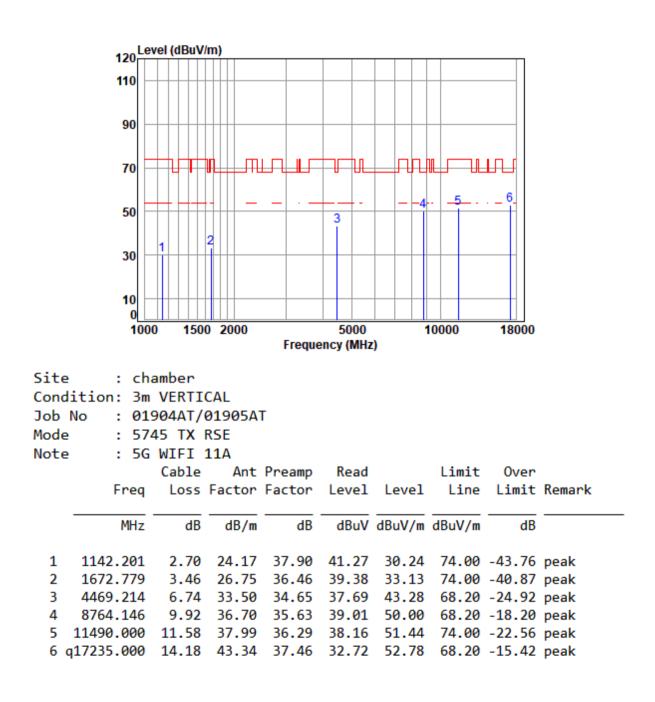
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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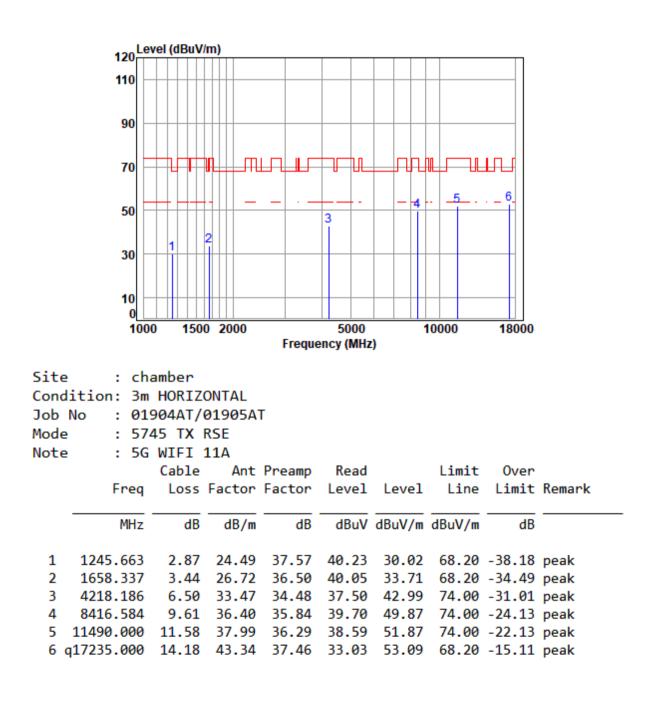
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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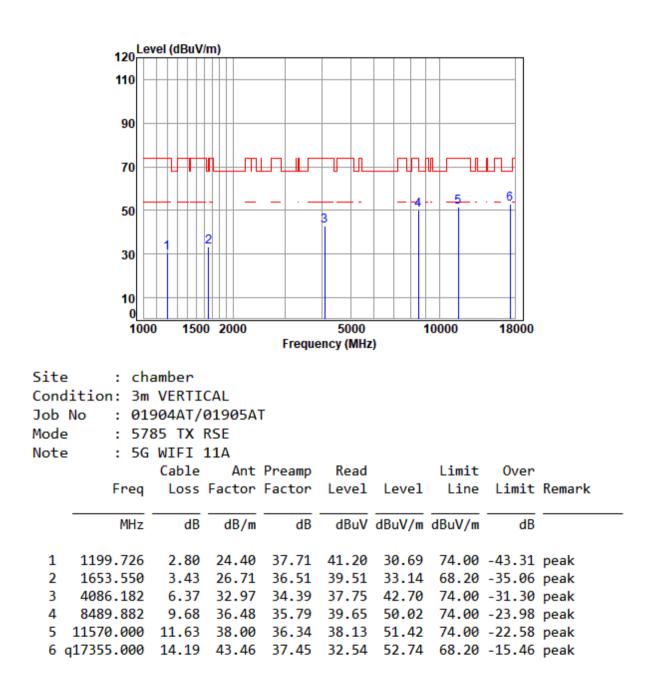
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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle





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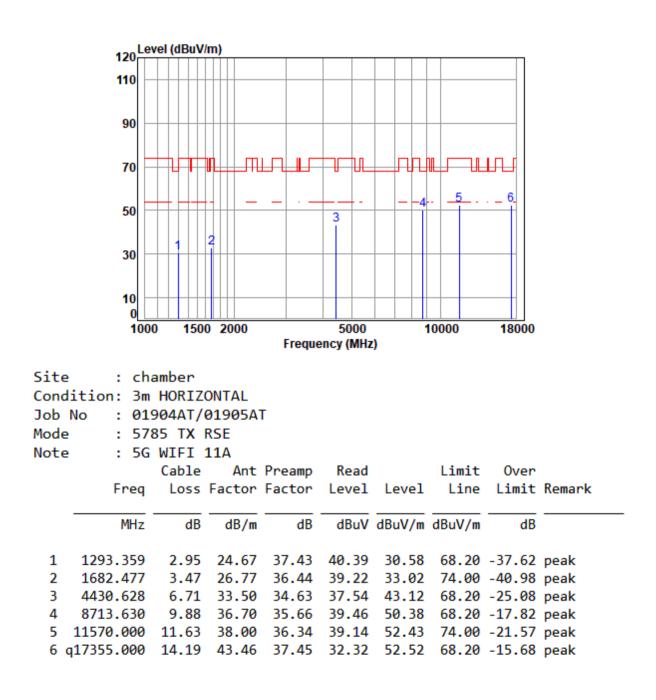
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle





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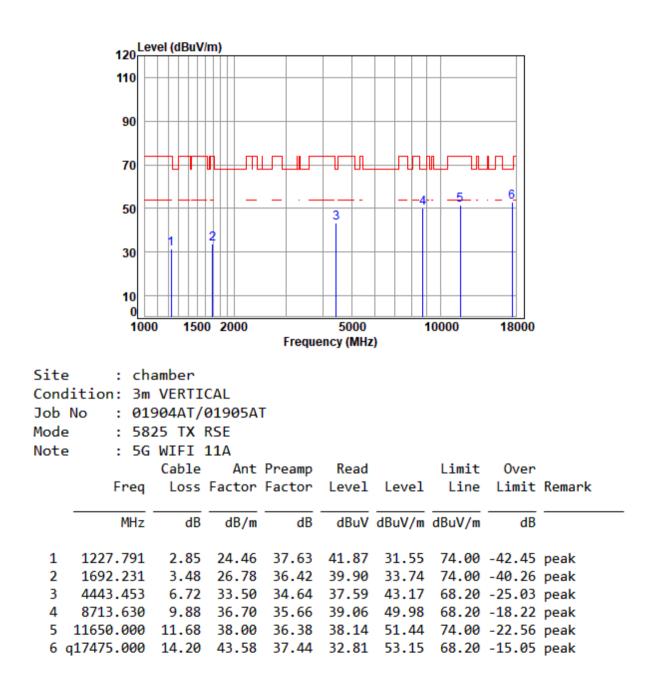
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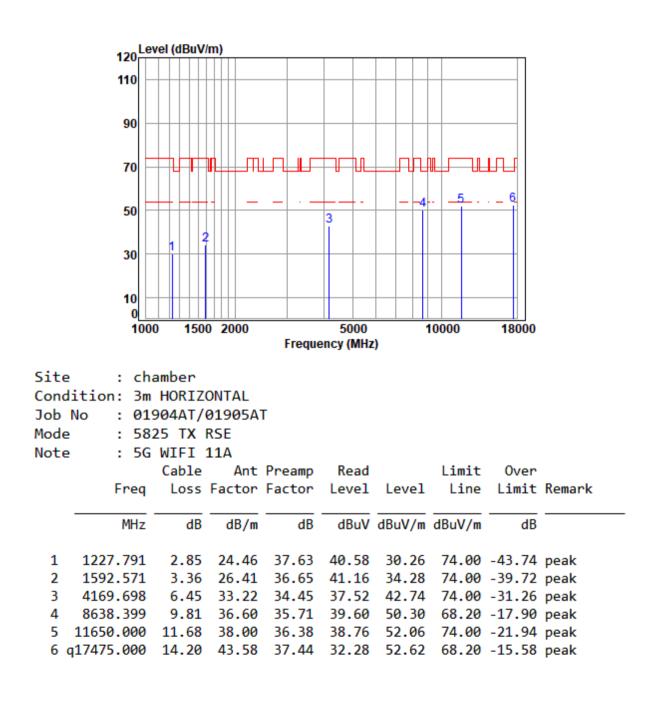
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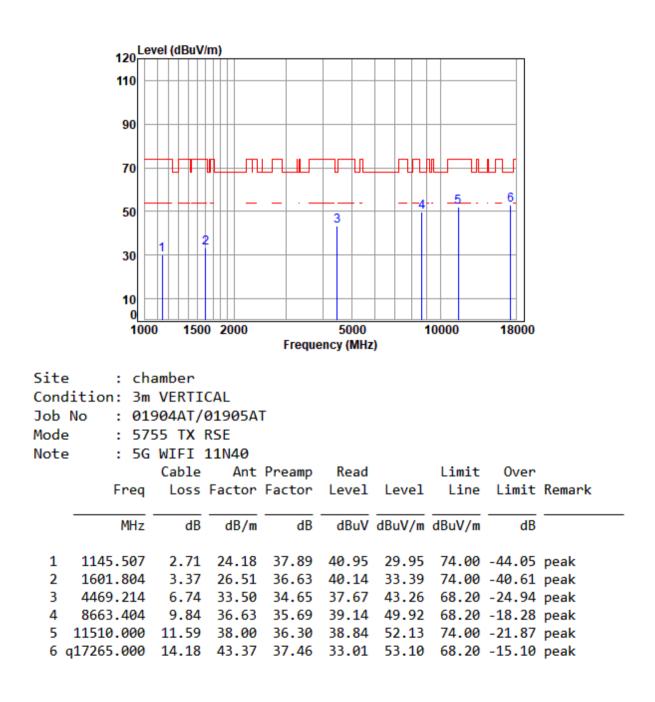
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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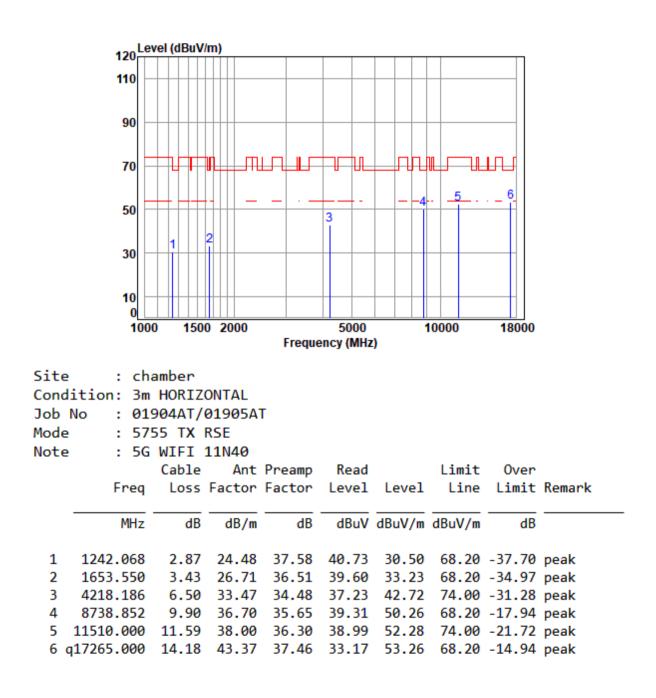
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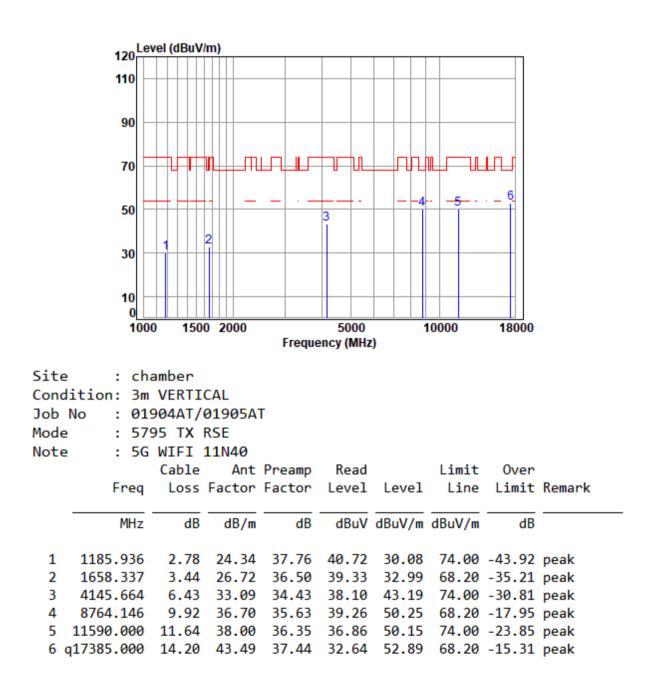
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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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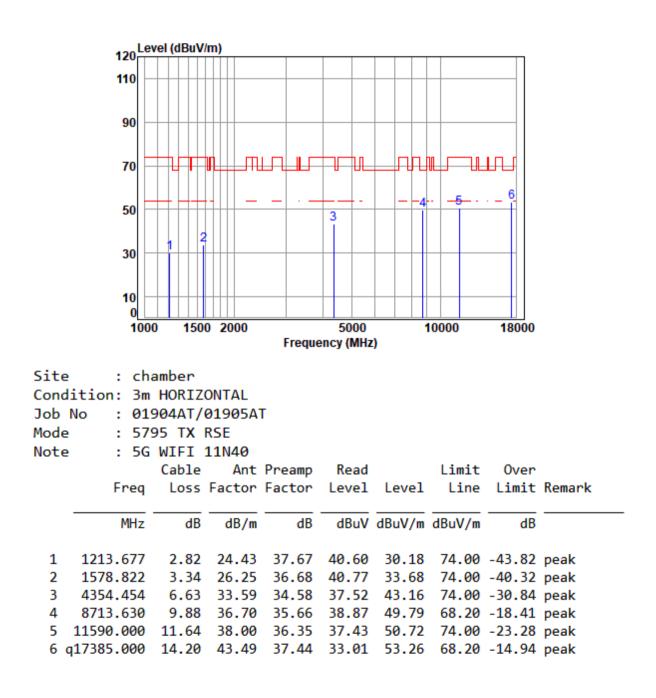
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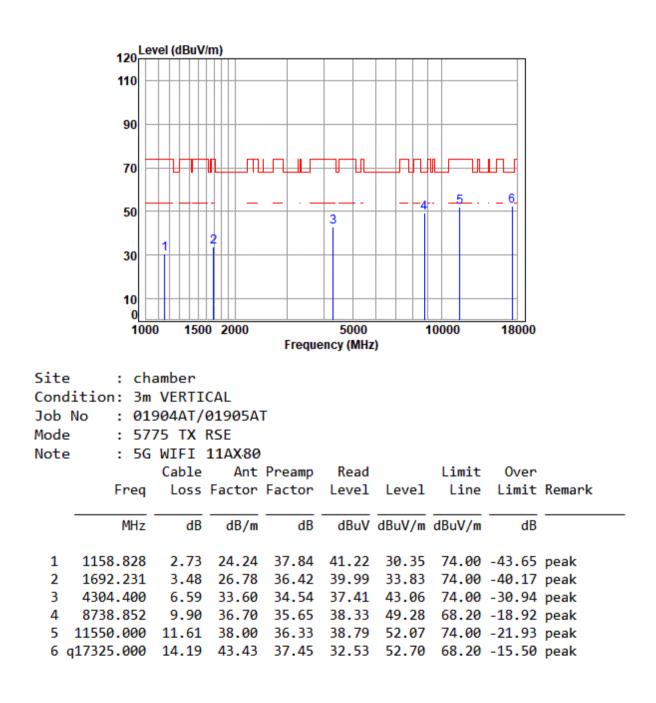
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Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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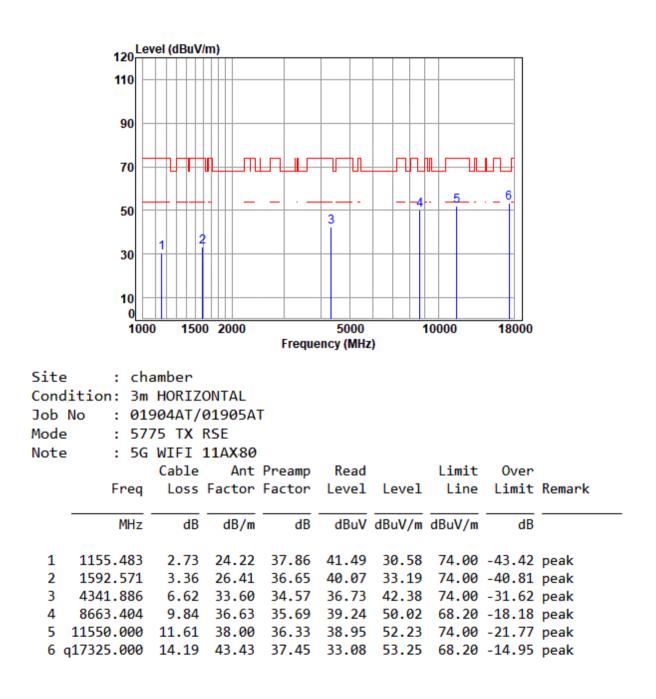
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Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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#### 7.9 Radiated Emissions which fall in the restricted bands

Test Requirement47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)Test Method:KDB 789033 D02 II G

Limit:

| Frequency (MHz) | Field strength(microvolts/meter) | Measurement<br>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                               |

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

#### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature:

24.2 °C

Humidity: 57.3 % RH

Atmospheric Pressure: 1008 mbar



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#### 7.9.2 Test Mode Description

| <br>Pre-scan /<br>Final test | Mode<br>Code | Description  |
|------------------------------|--------------|--|
| Final test                   | 05           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test                   | 06           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
| Final test                   | 07           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with<br>all modulation types. All data rates for each modulation type have been<br>tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;<br>data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @<br>MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the<br>worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br>802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); final test modes are considering the modulation and<br>worse data rates. Only the data of worst case is recorded in the report.  |
| Final test                   | 08           | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |



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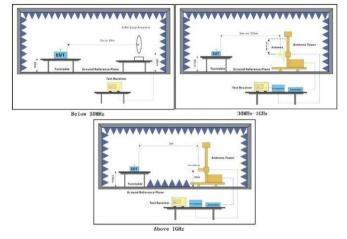
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#### 7.9.3 Test Setup Diagram



#### 7.9.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



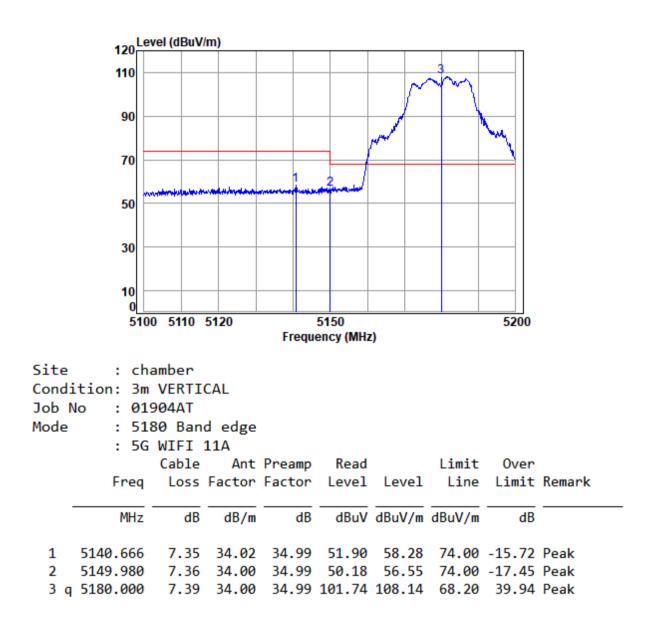
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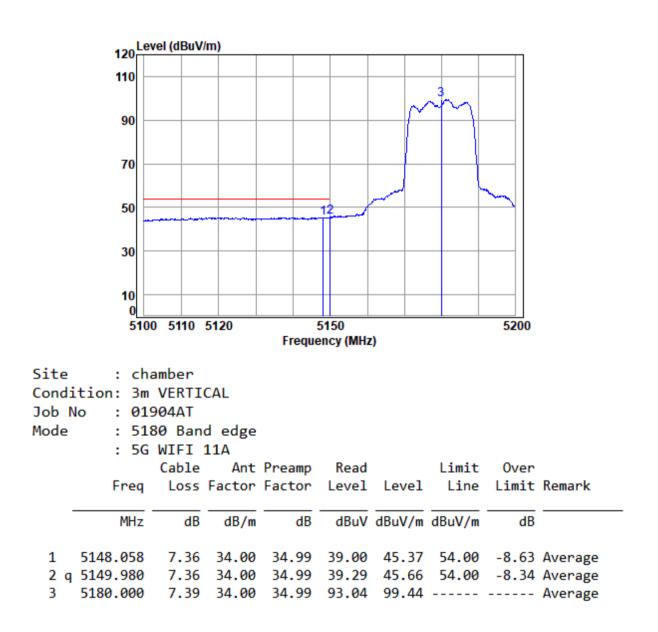
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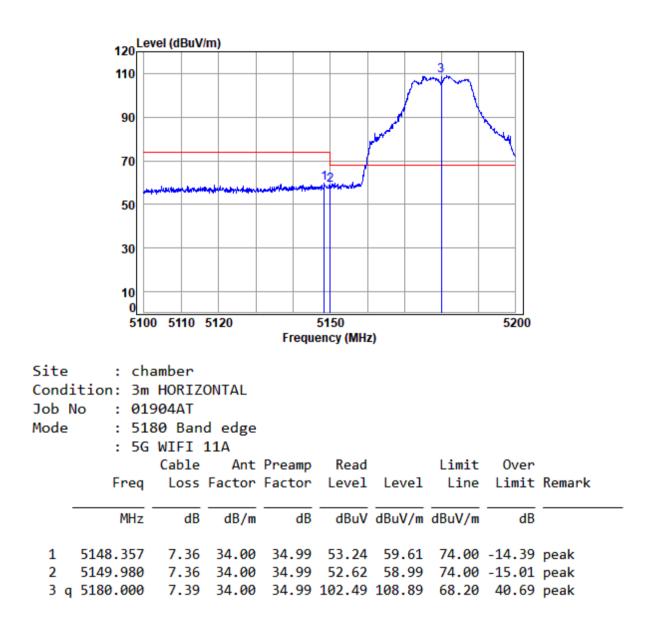
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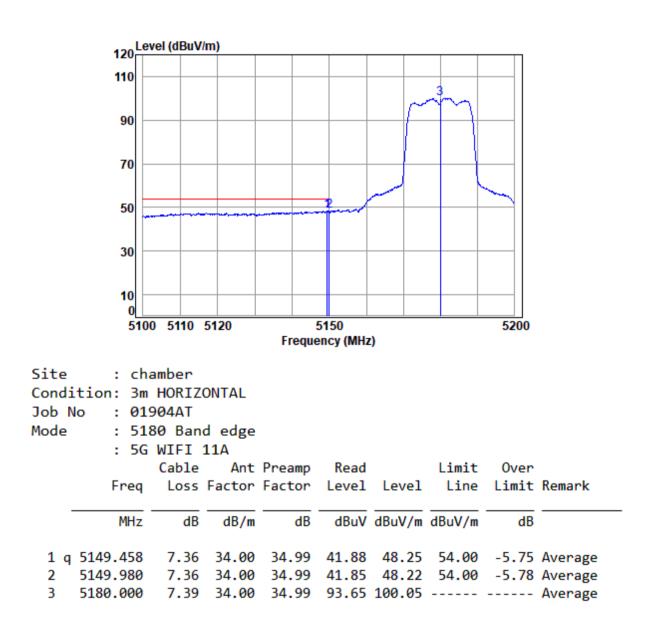
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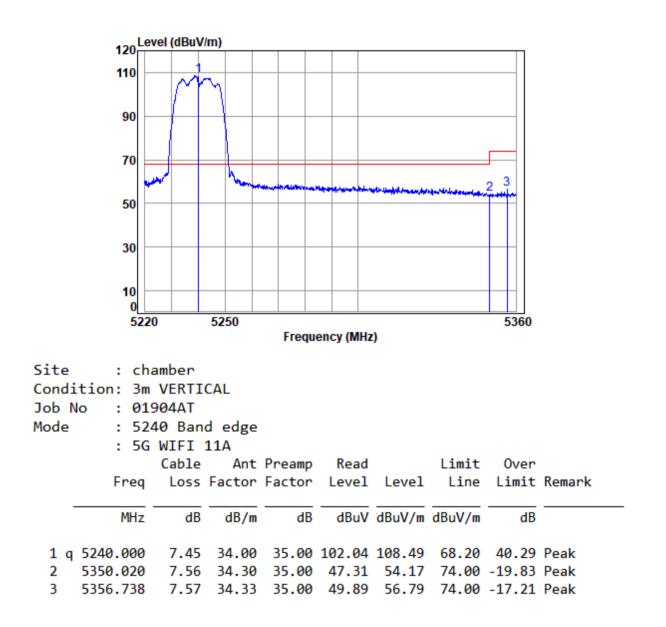
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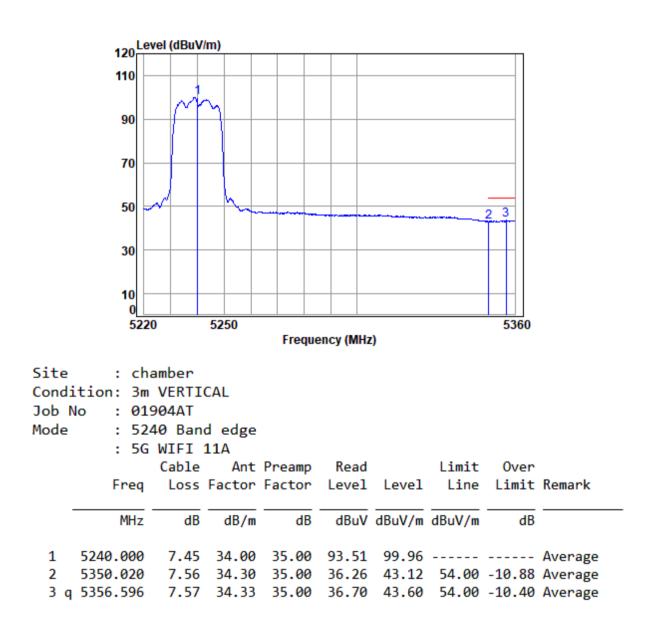
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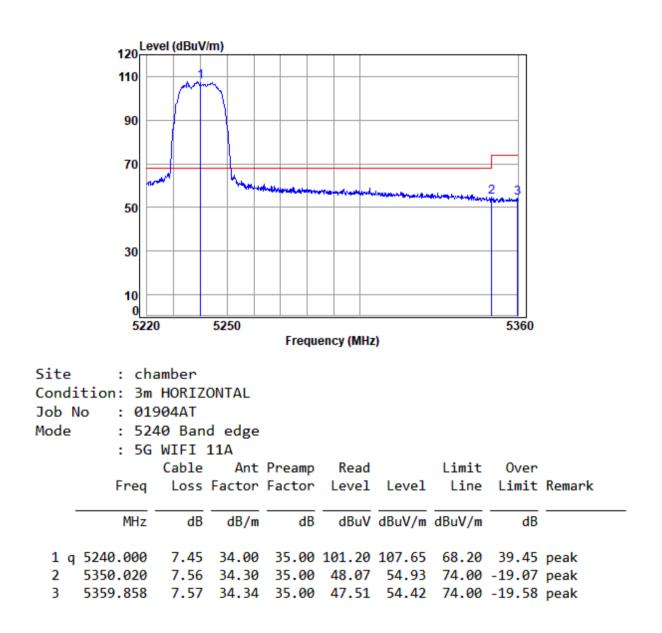
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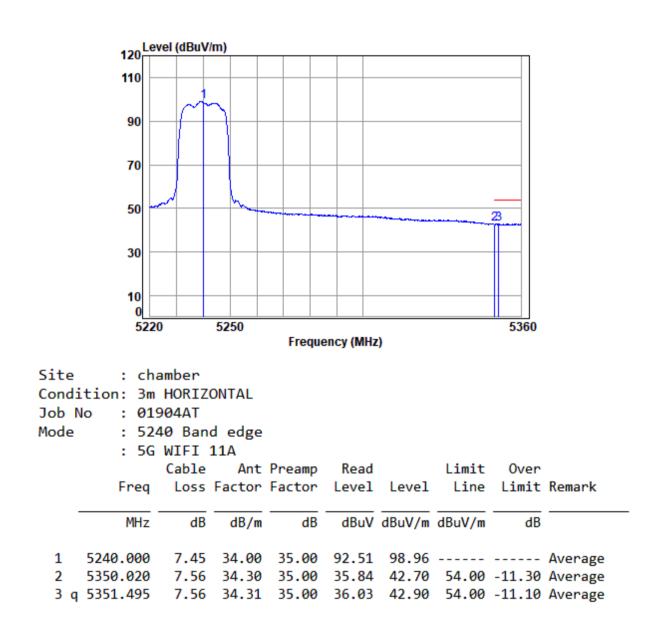
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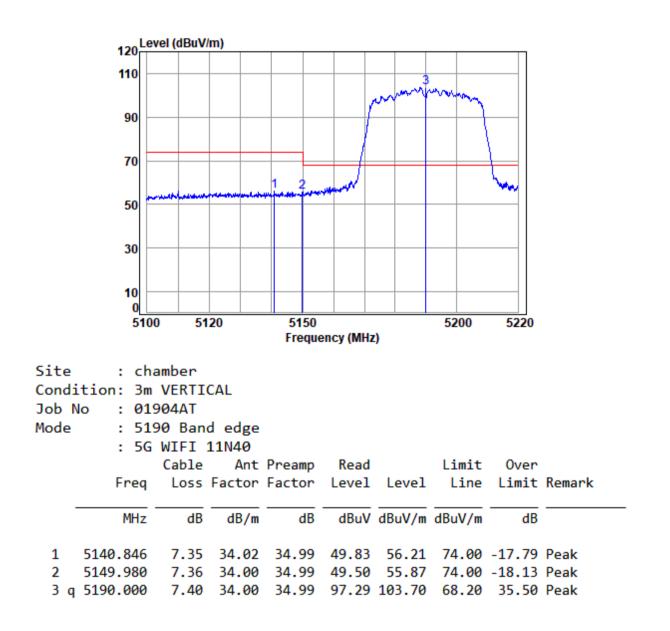
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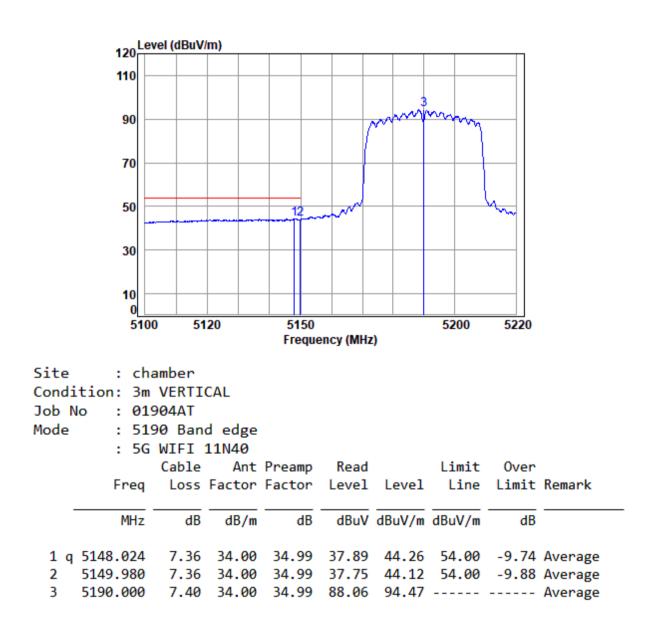
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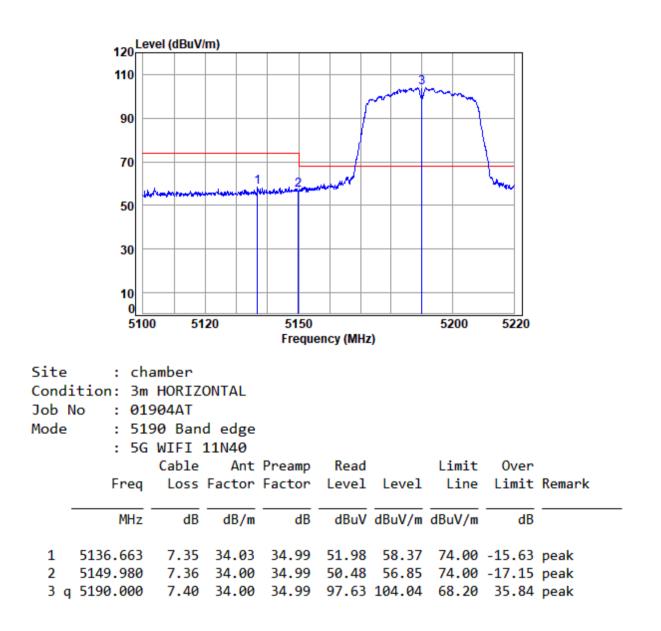
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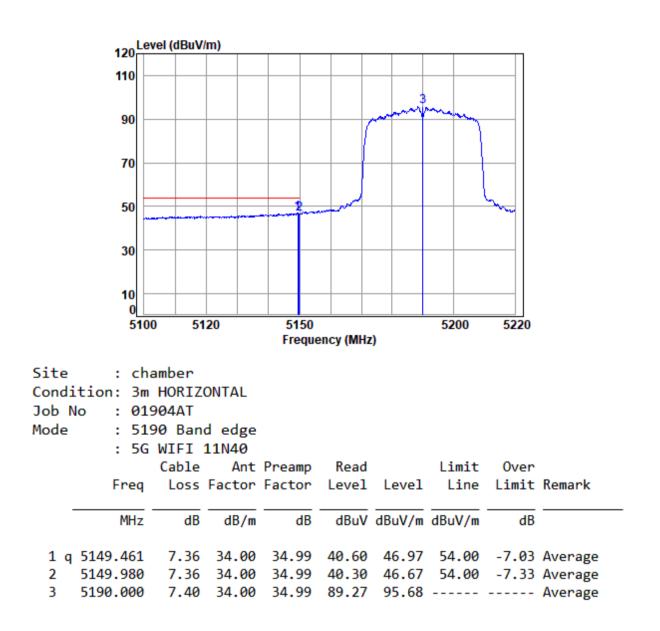
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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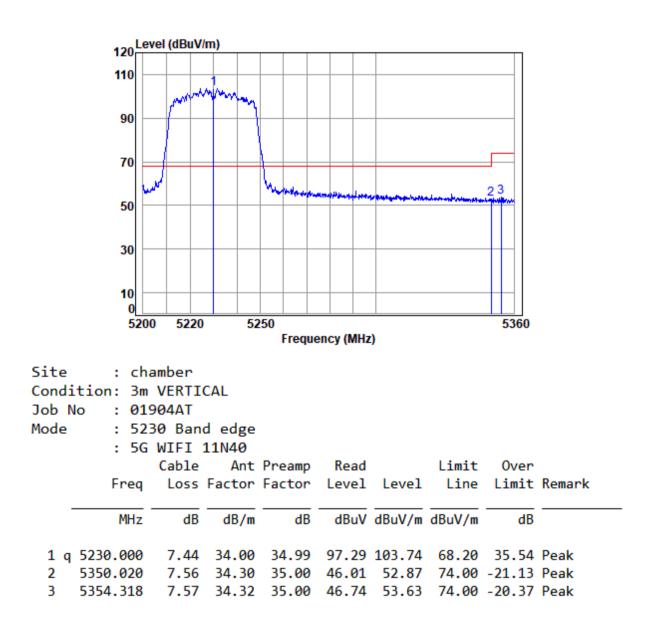
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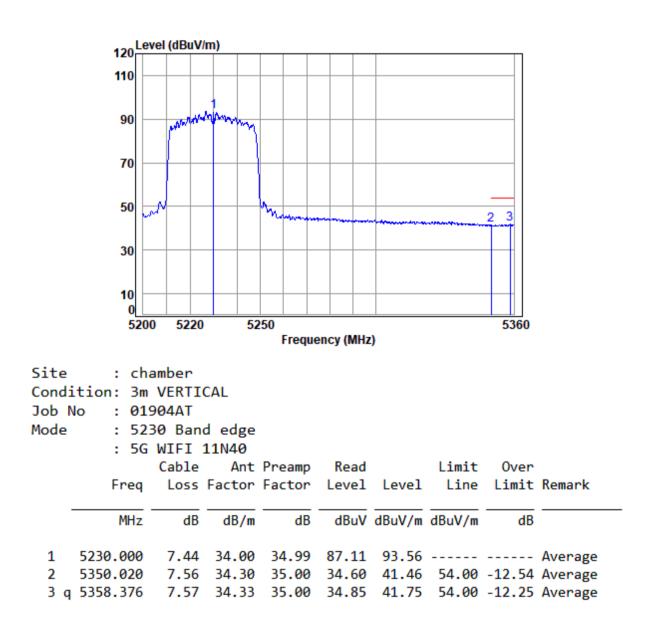
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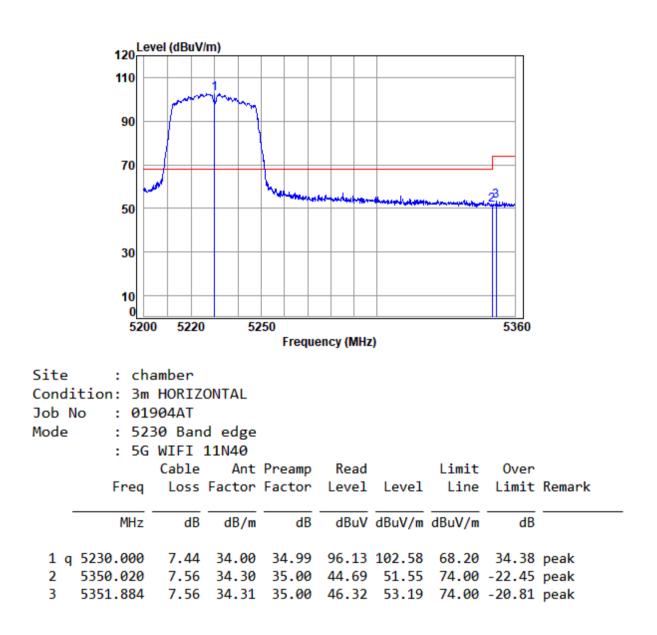
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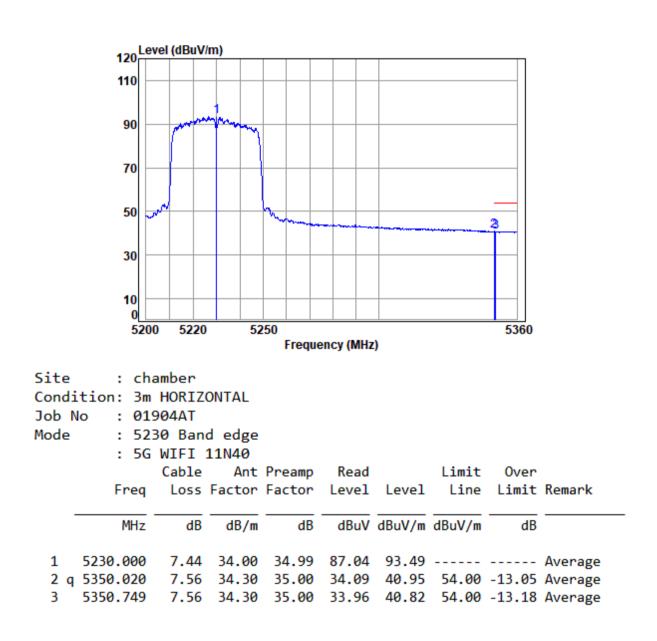
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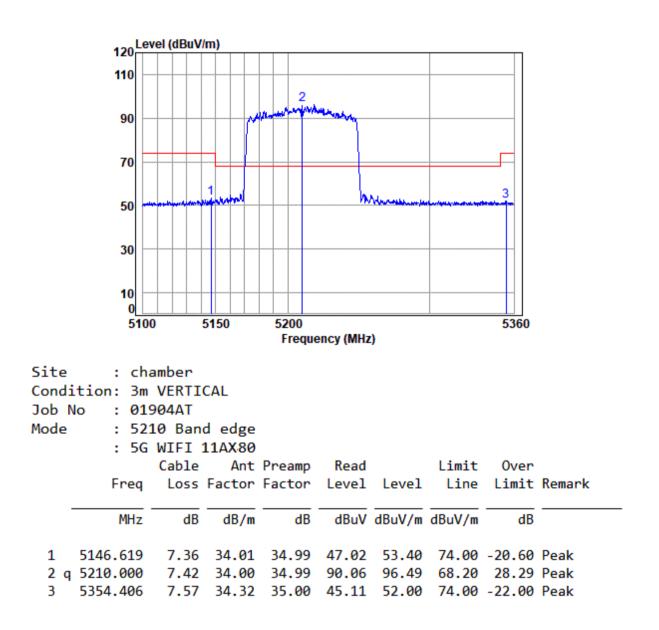
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Test Mode: 05; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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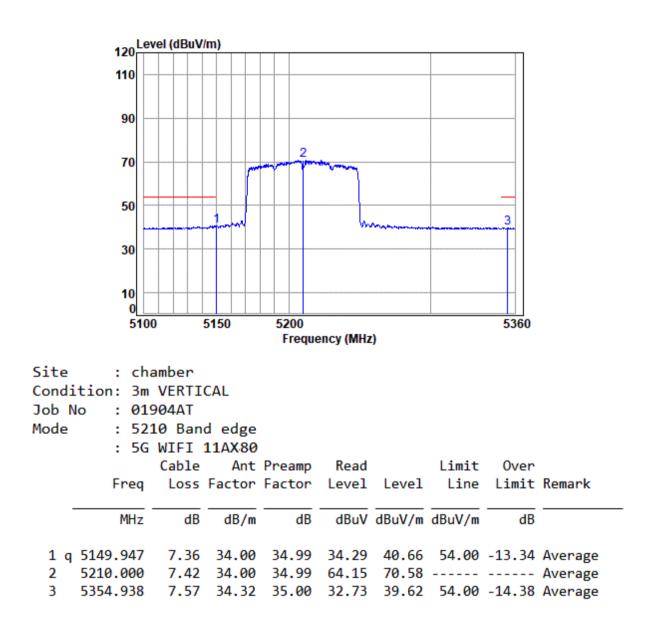
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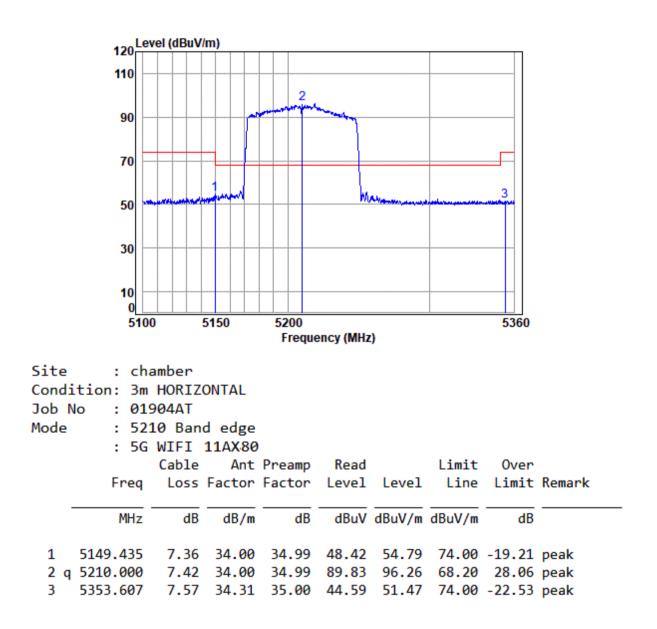
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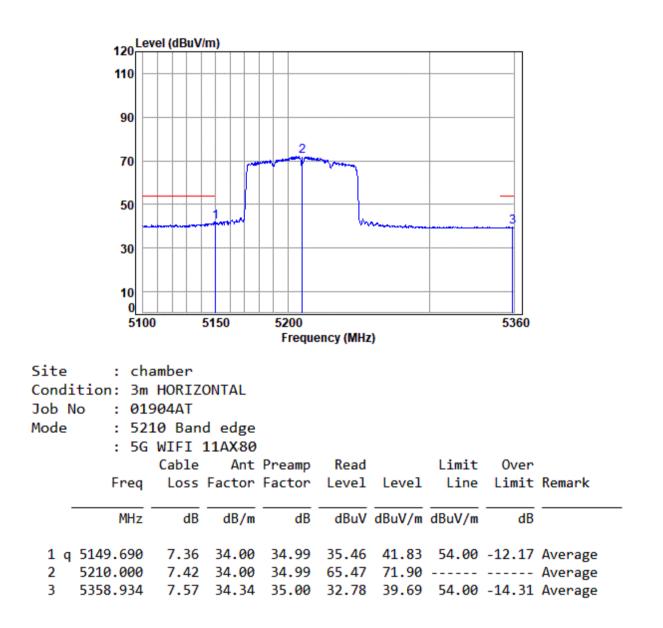
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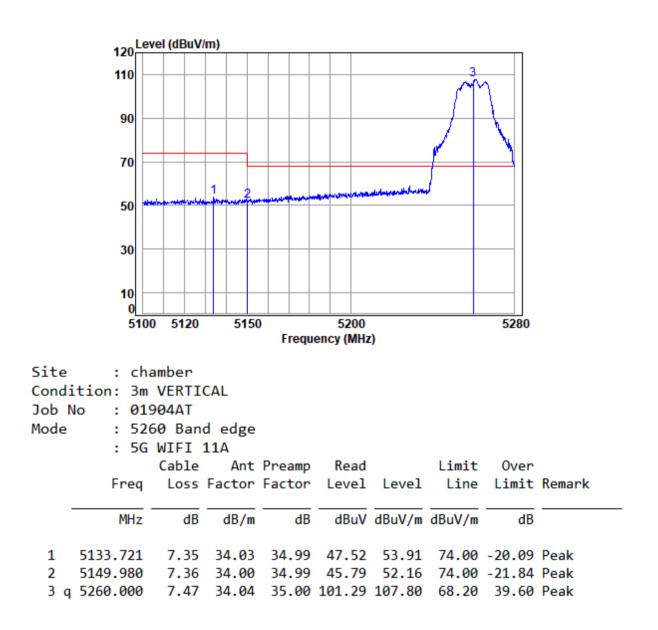
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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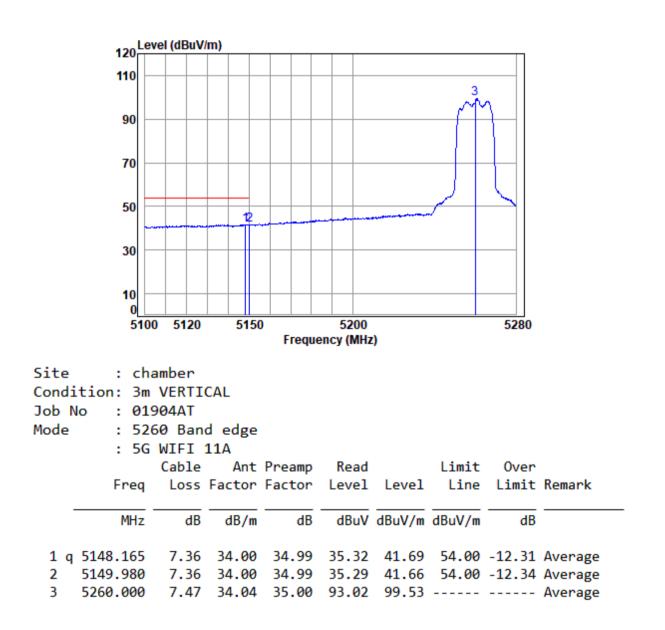
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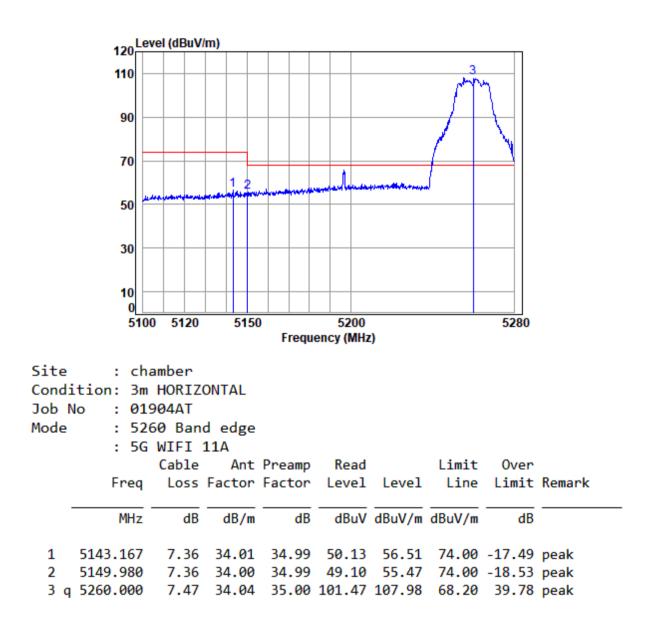
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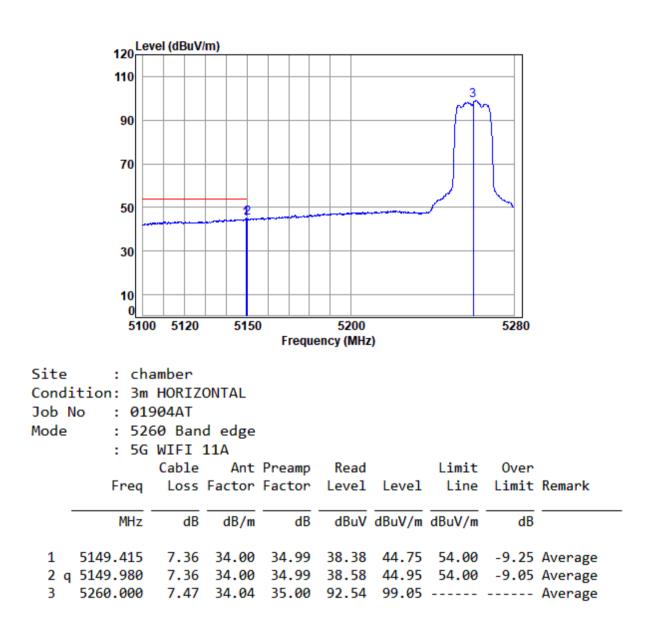
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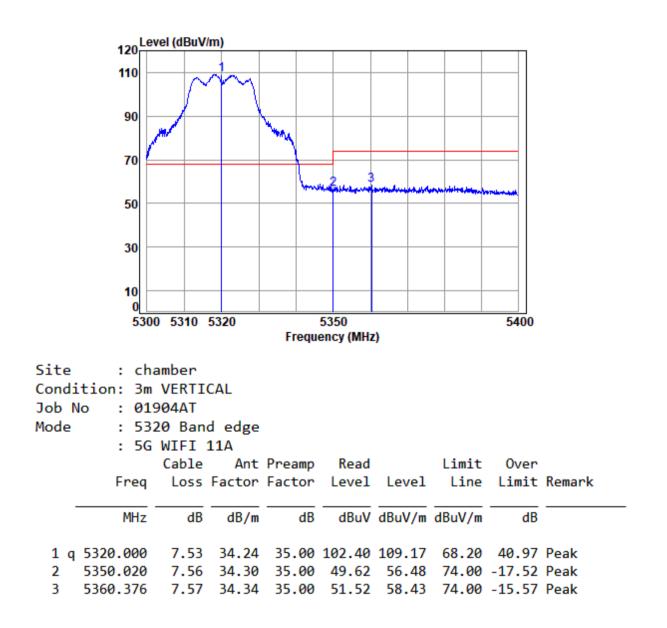
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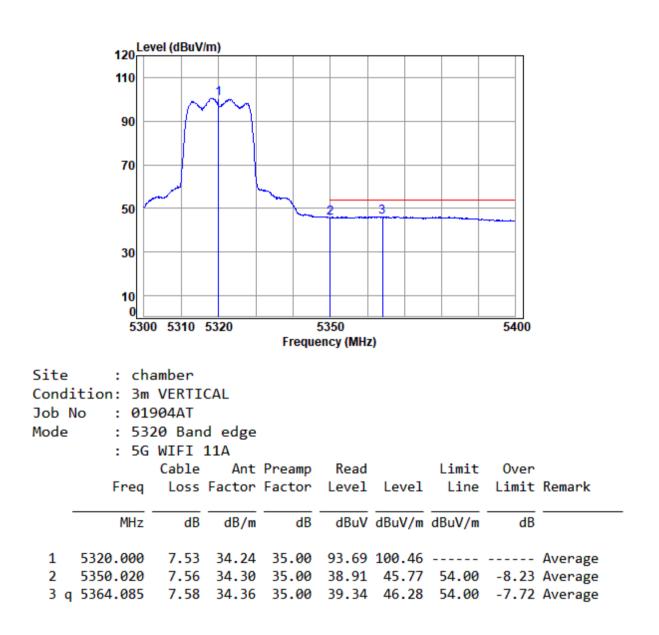
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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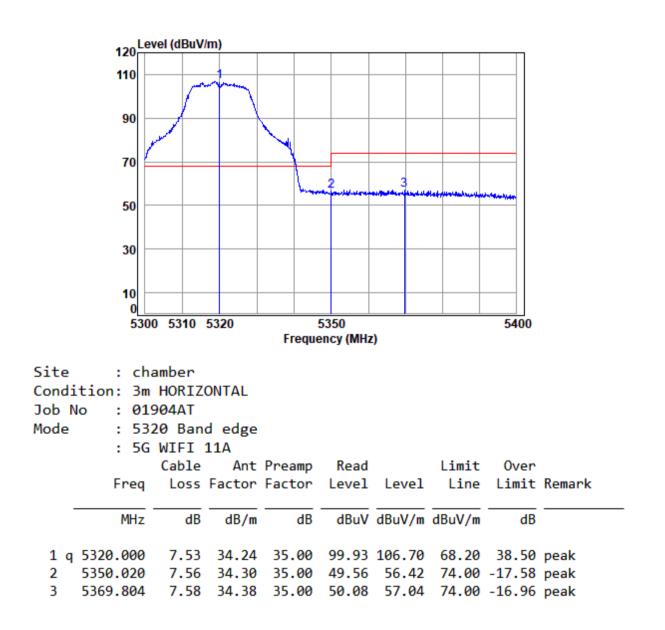
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Report No.: SZCR230600190405 Page: 113 of 533

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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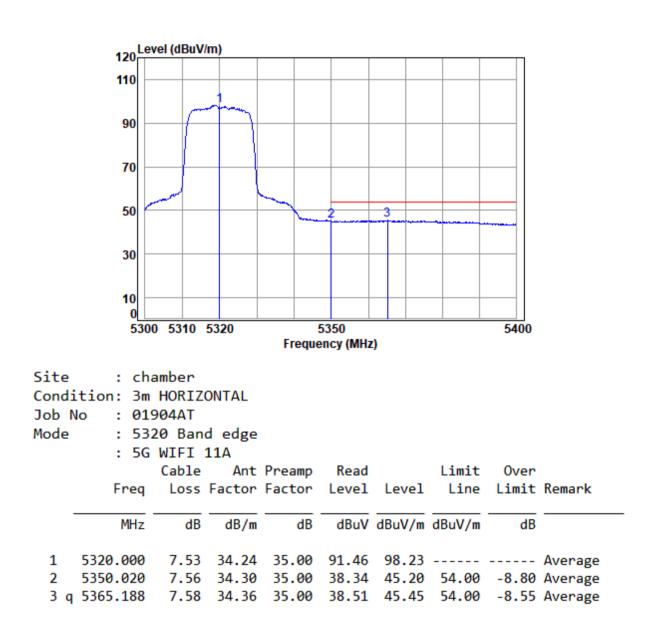
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Report No.: SZCR230600190405 Page: 114 of 533

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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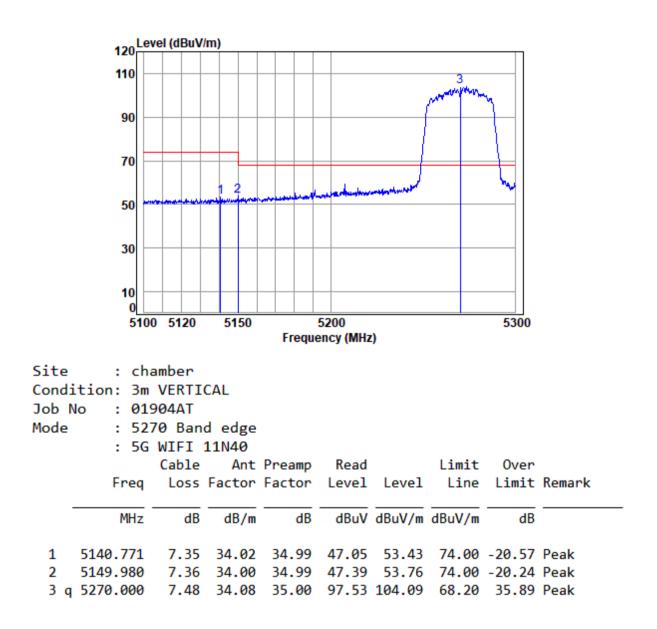
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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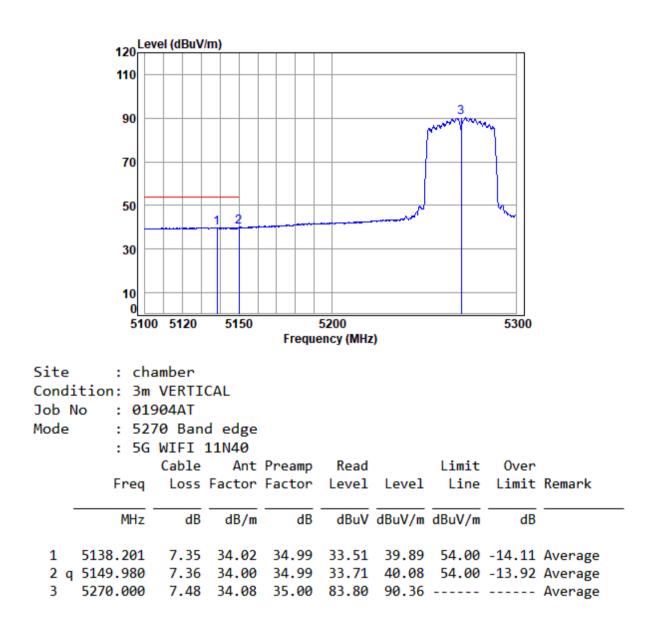
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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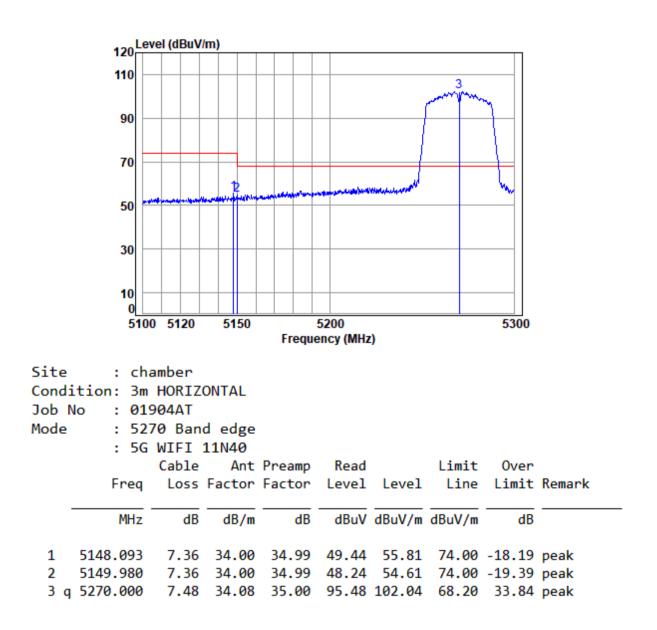
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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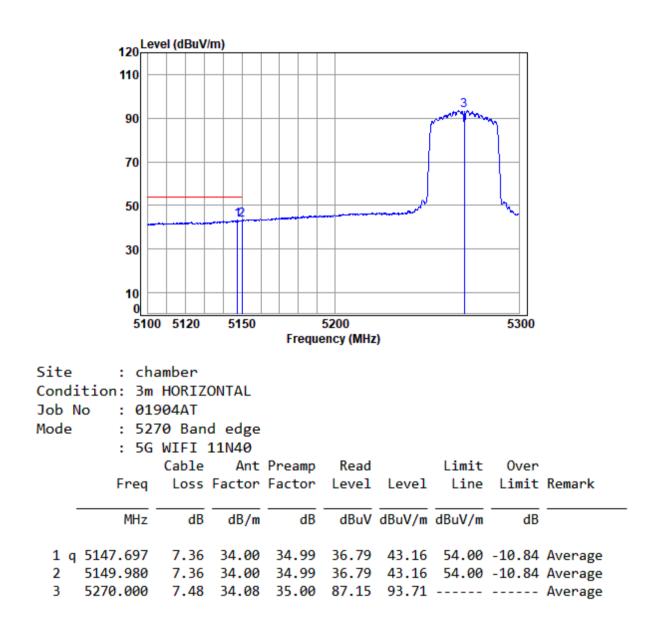
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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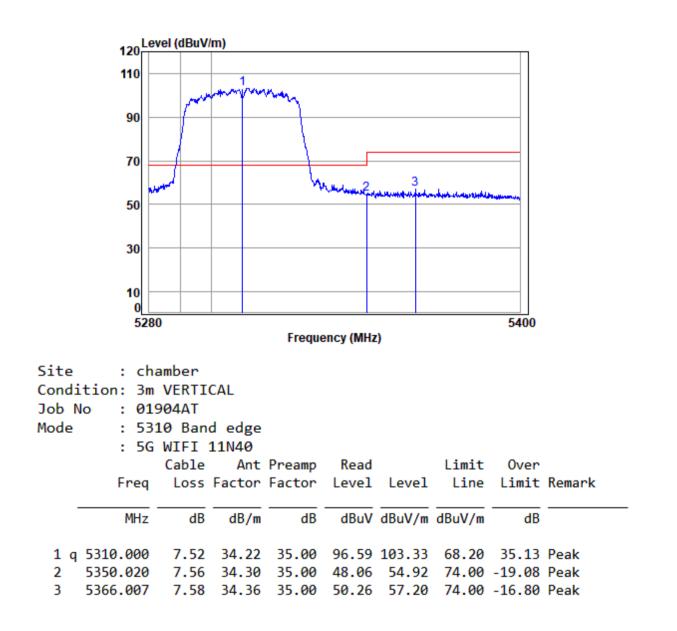
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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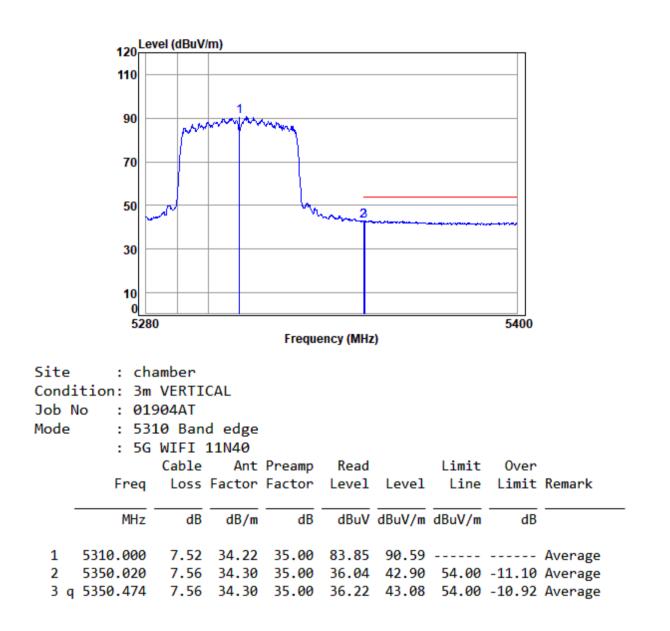
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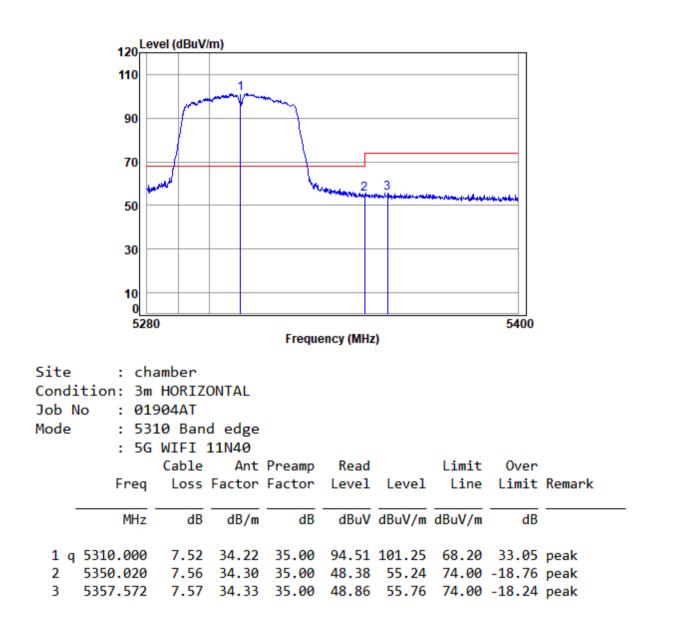
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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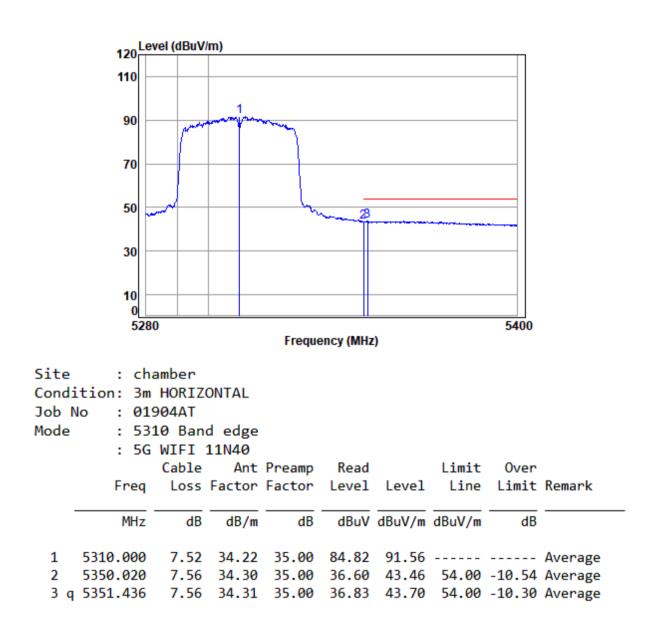
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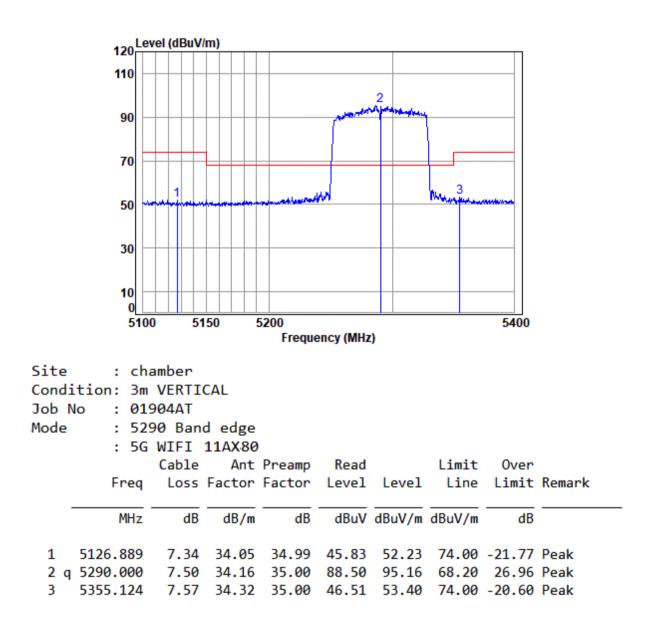
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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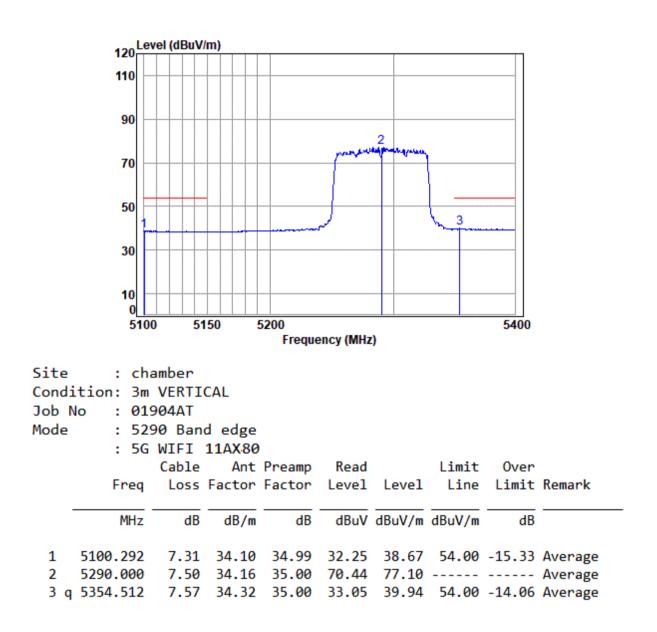
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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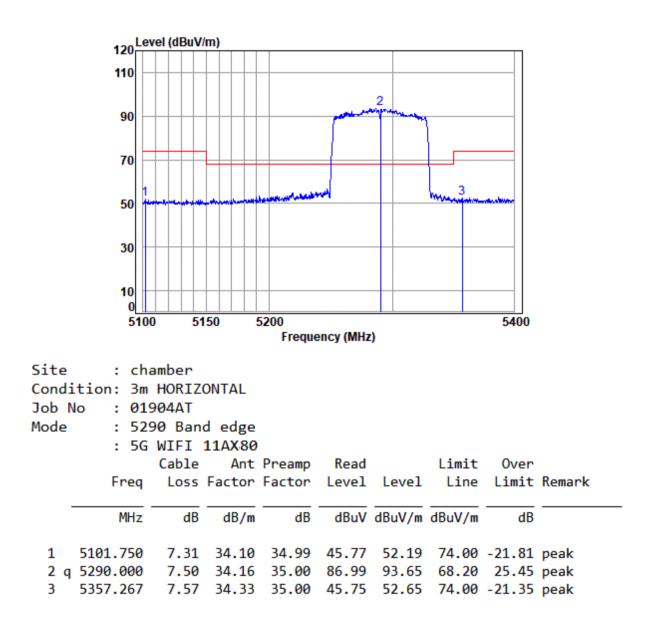
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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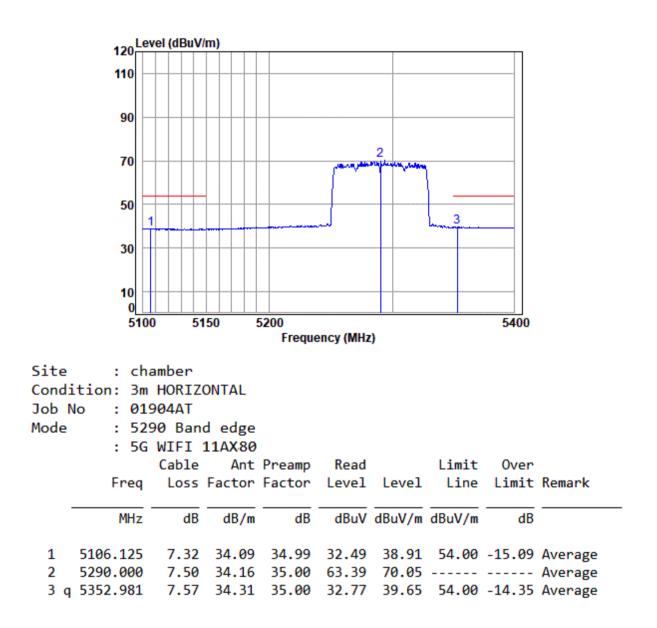
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz





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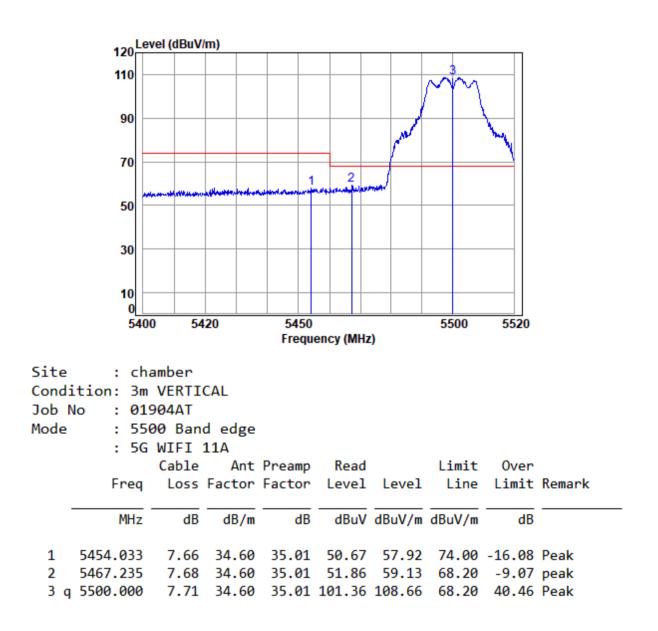
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Report No.: SZCR230600190405 Page: 127 of 533

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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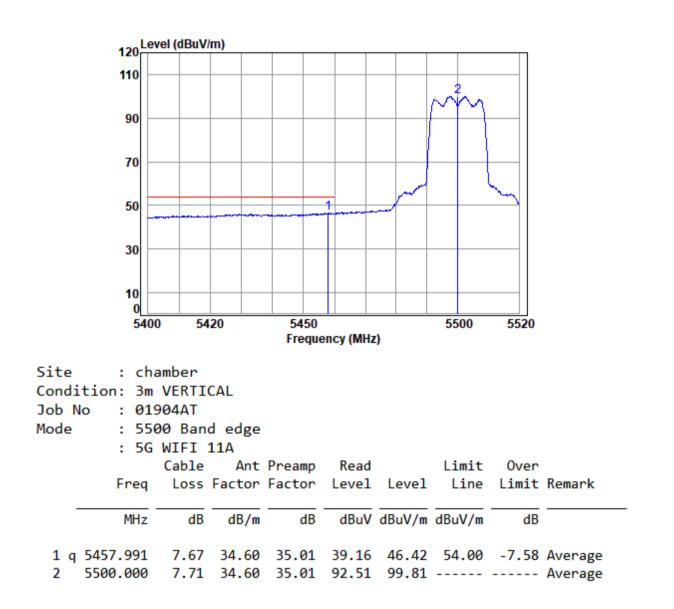
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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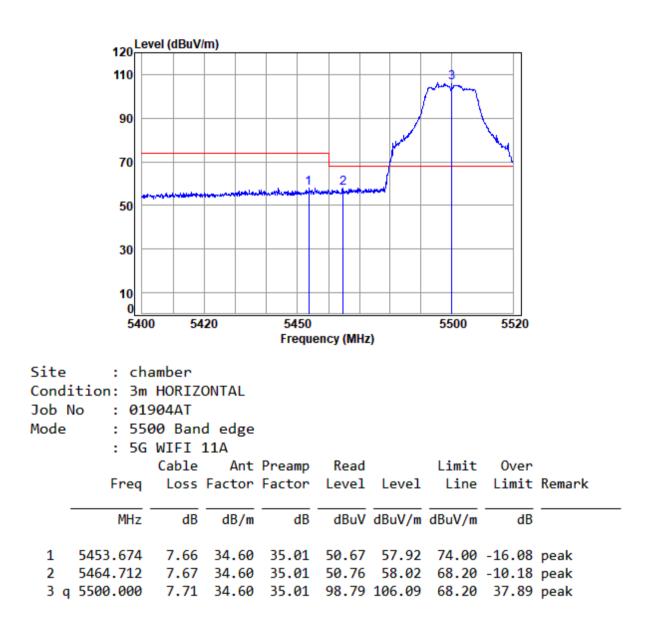
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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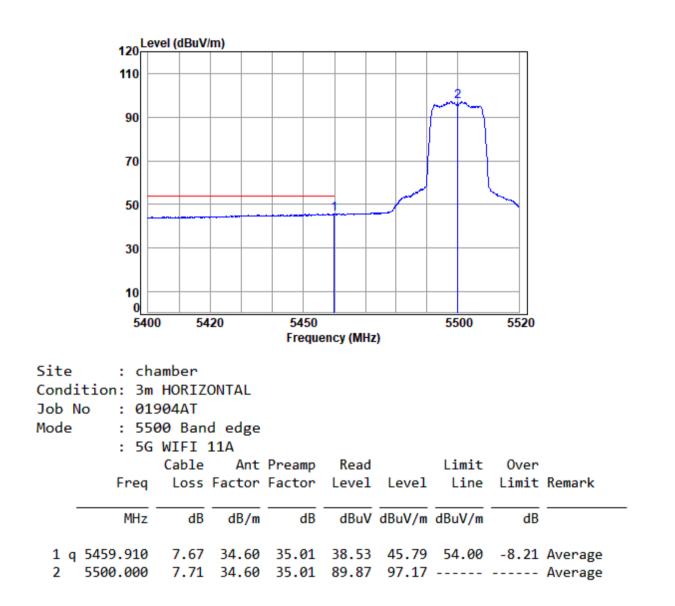
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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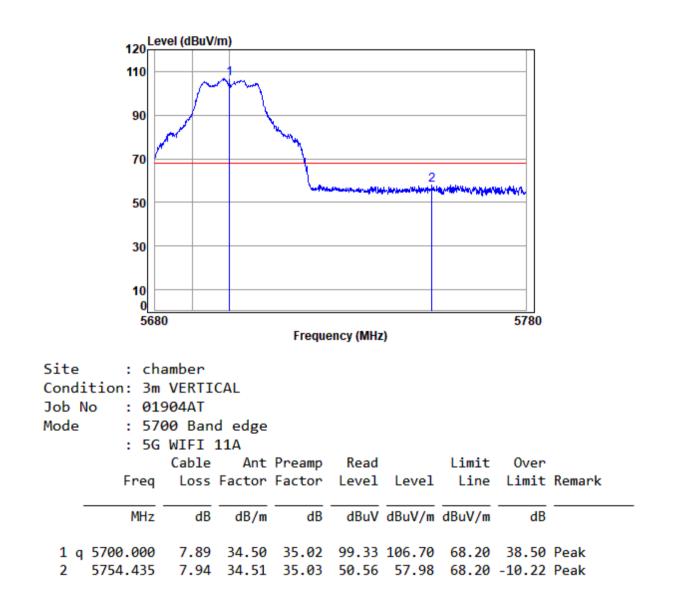
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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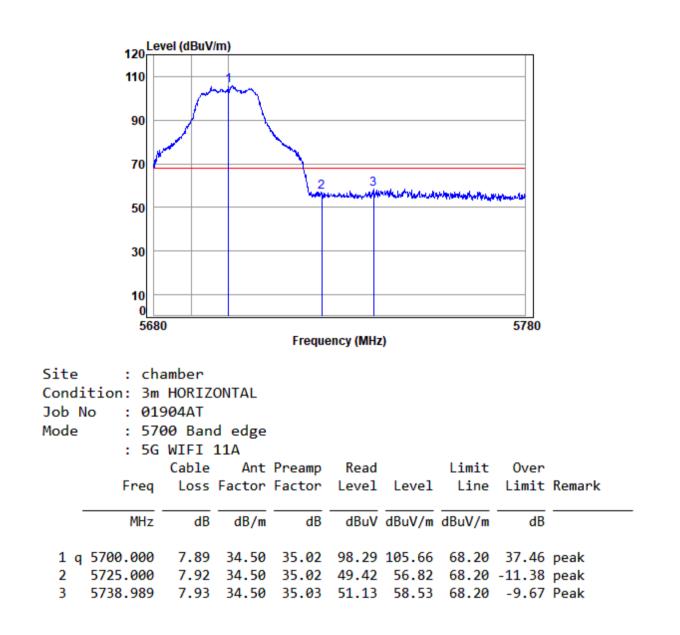
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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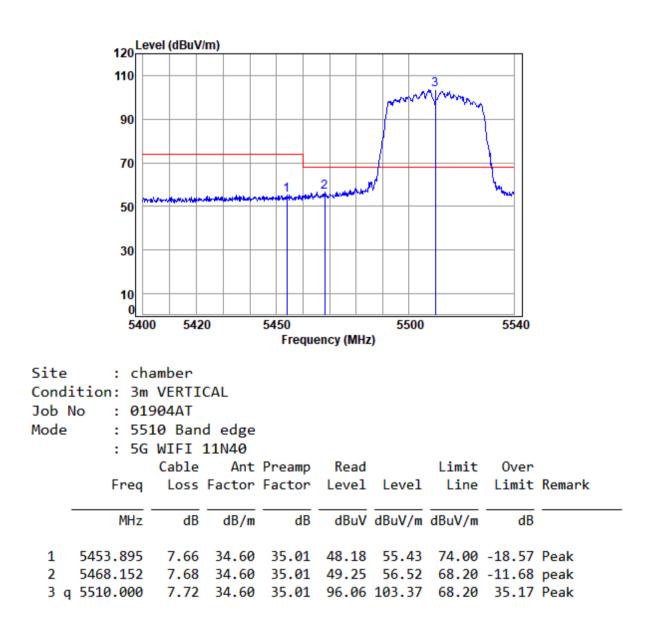
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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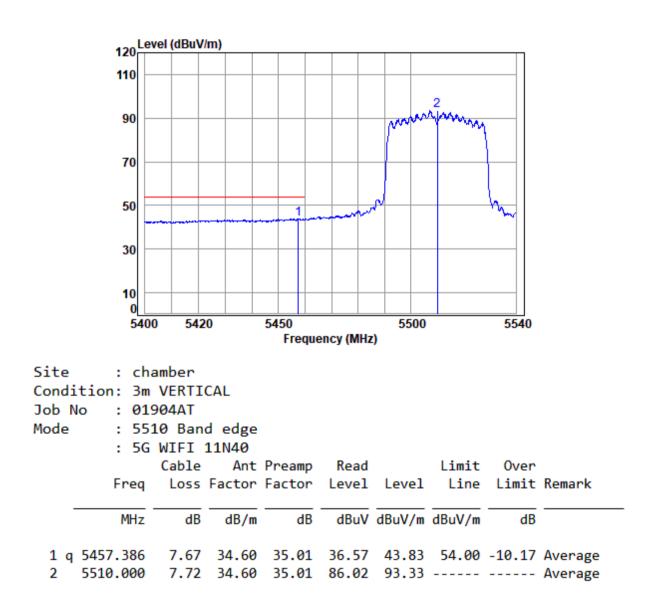
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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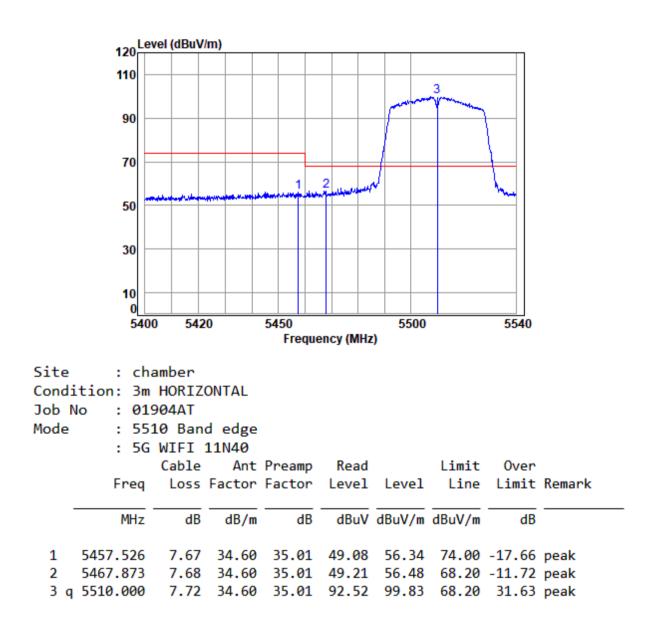
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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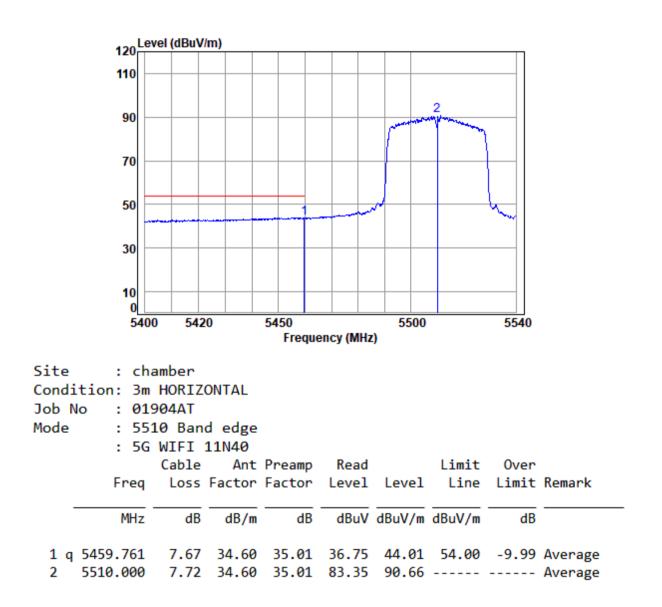
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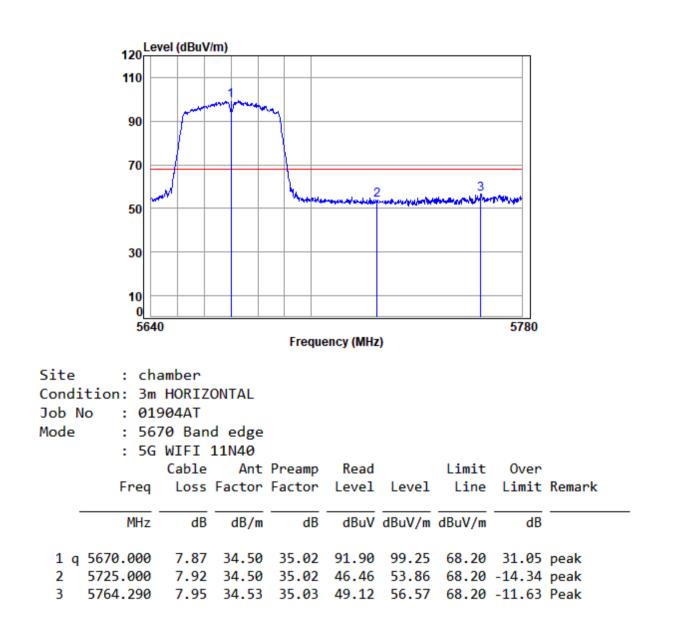
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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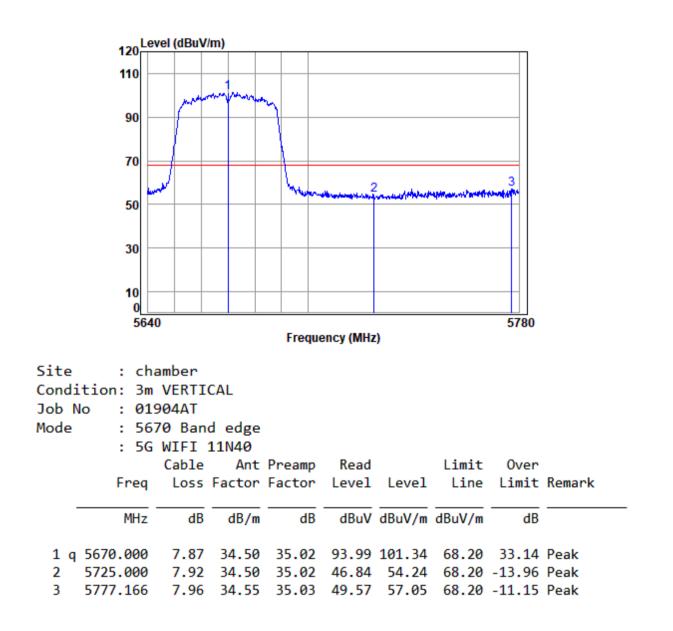
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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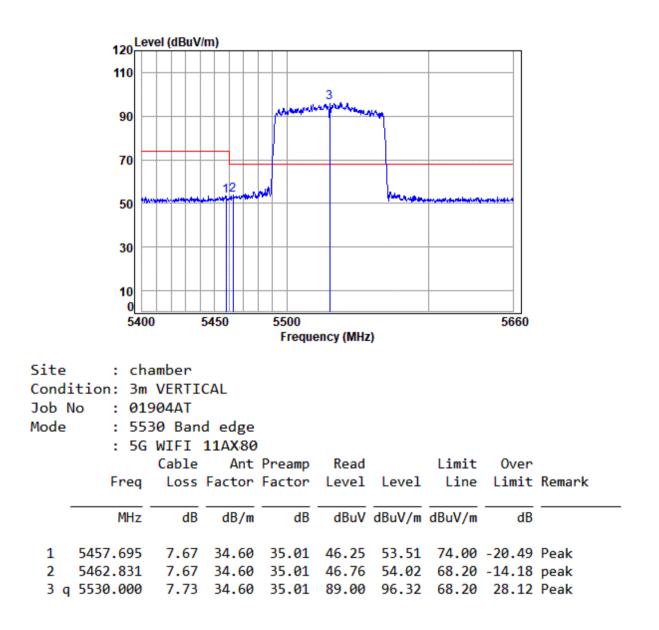
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low





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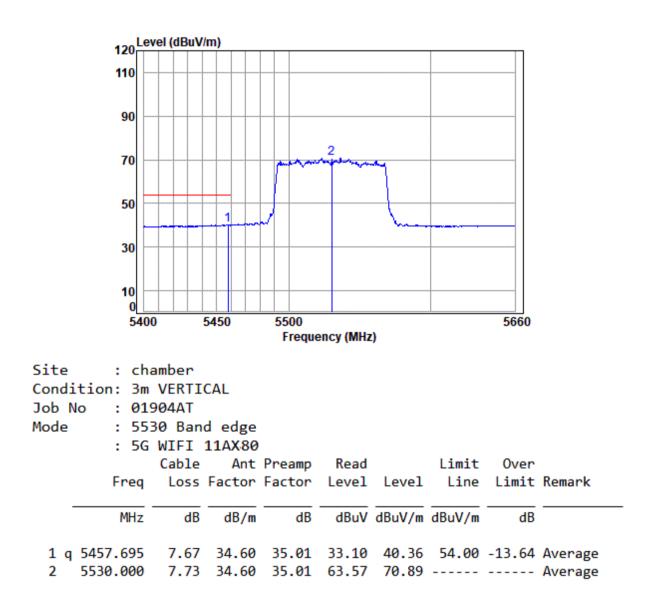
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low





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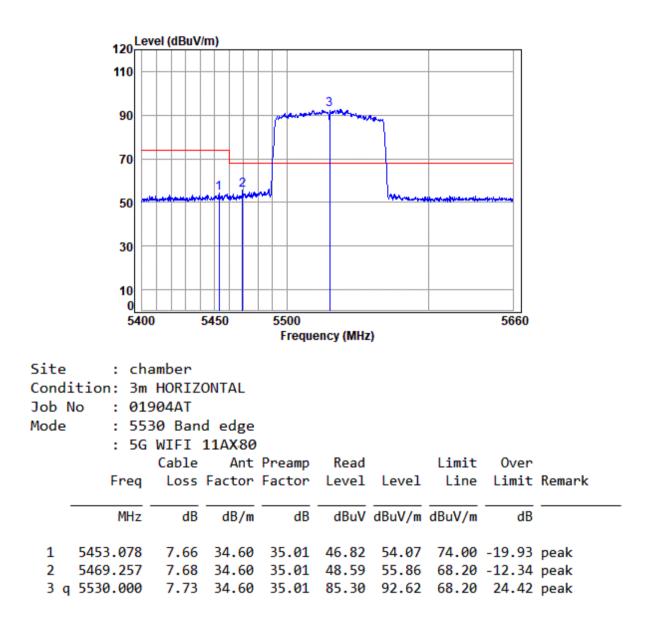
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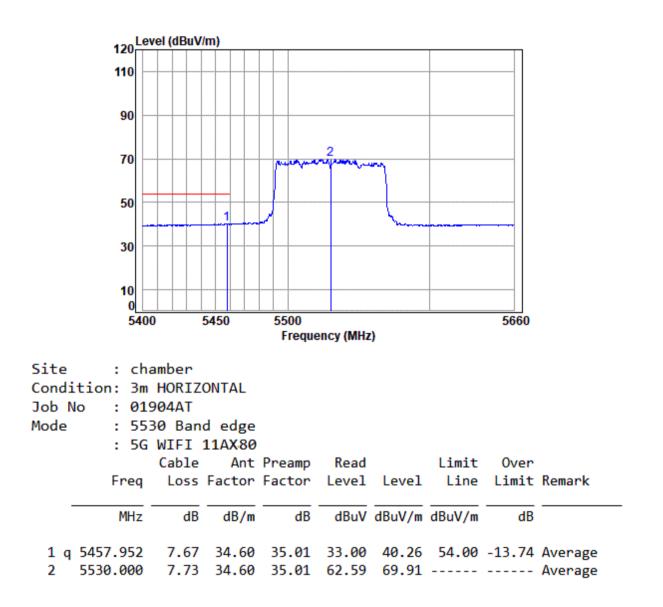
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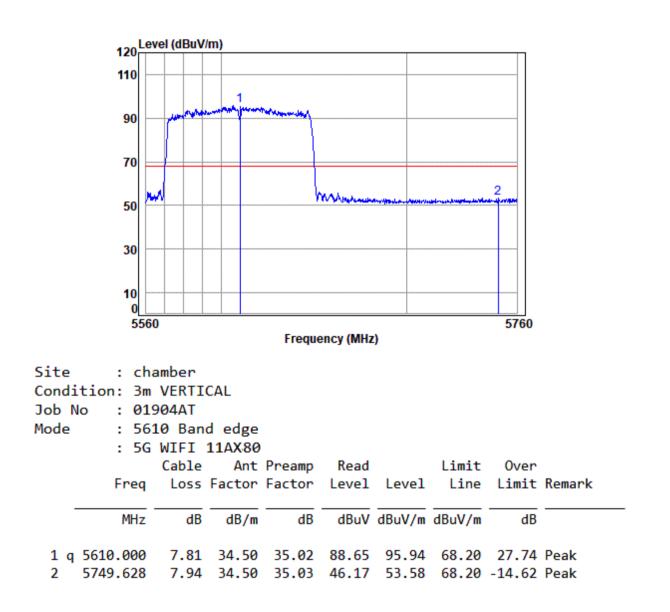
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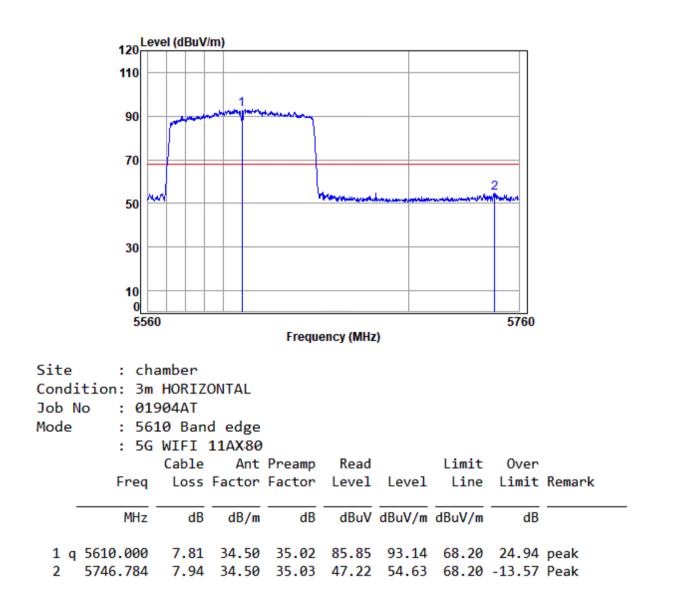
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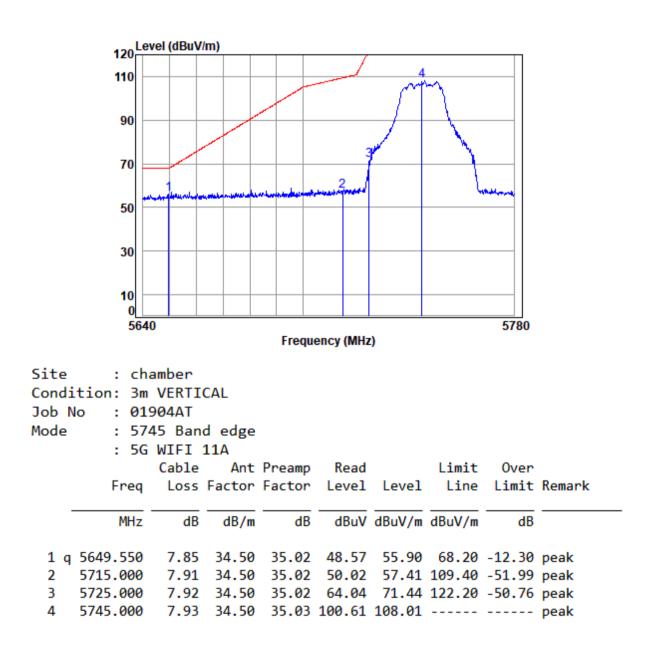
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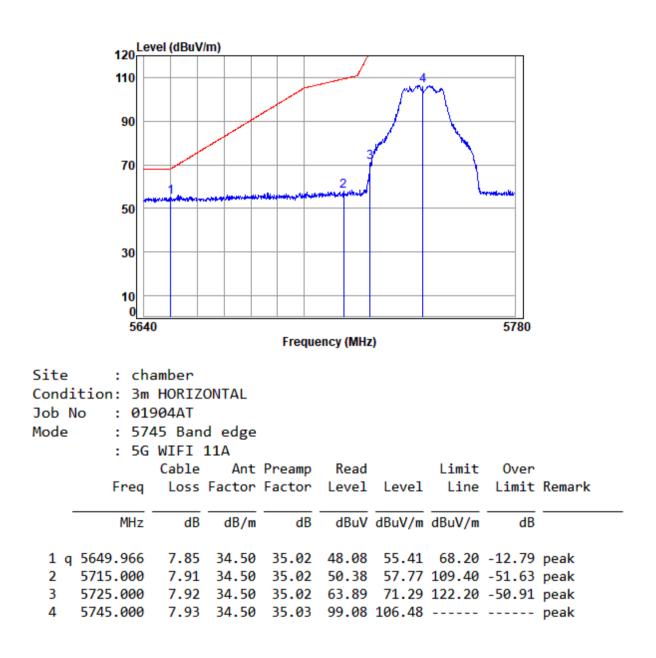
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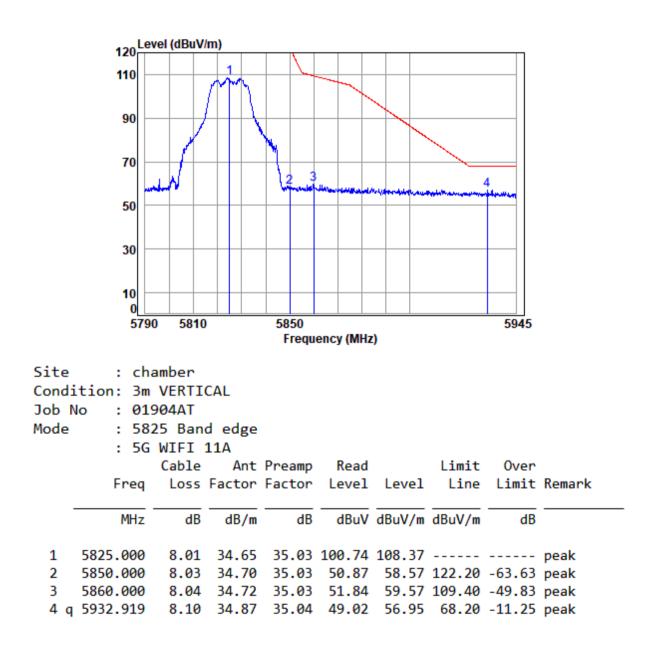
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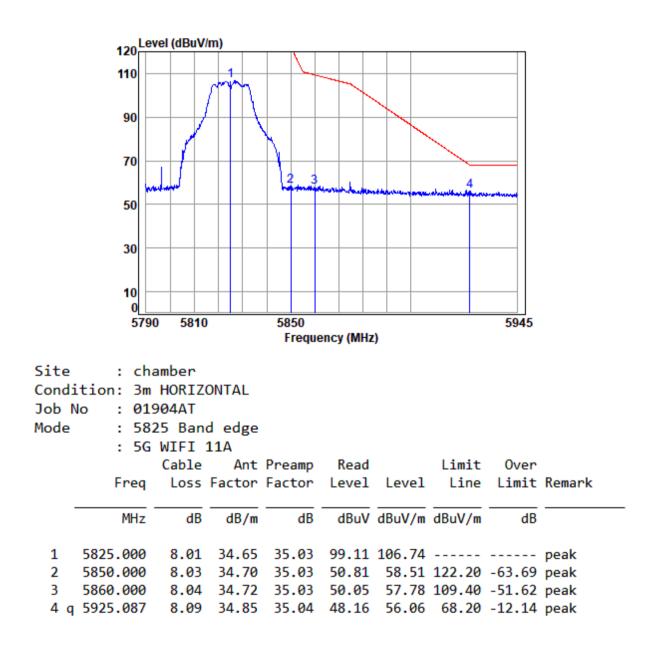
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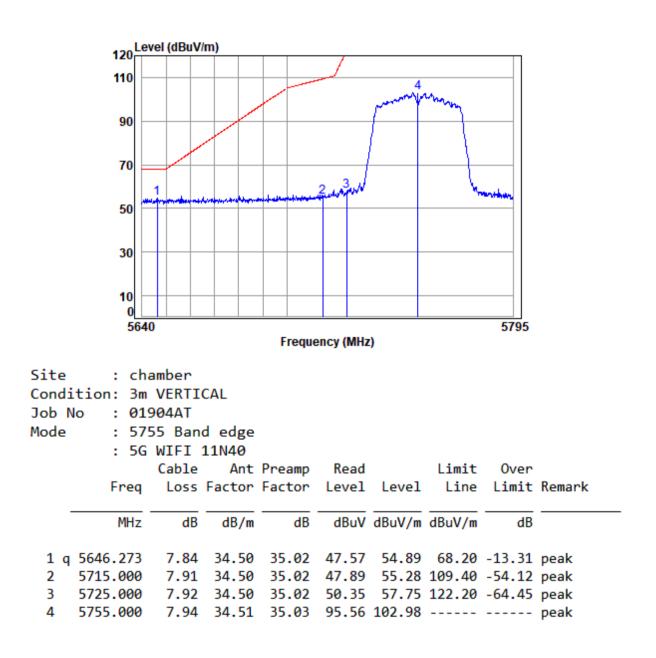
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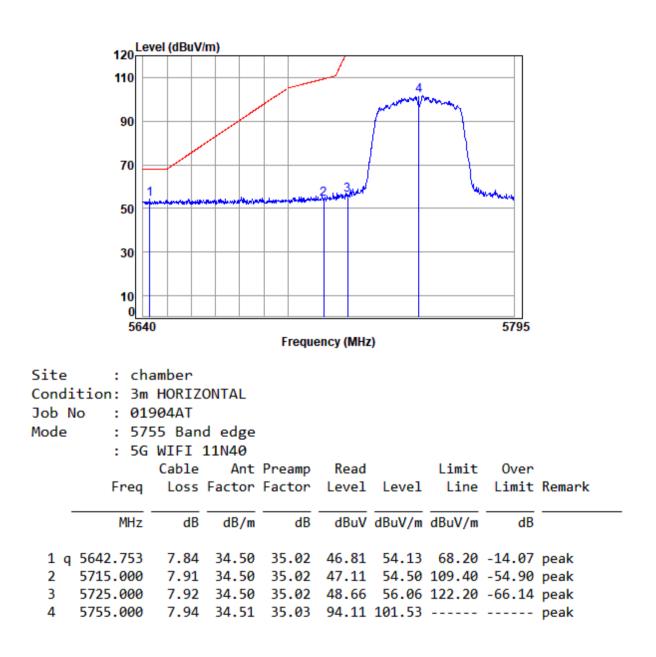
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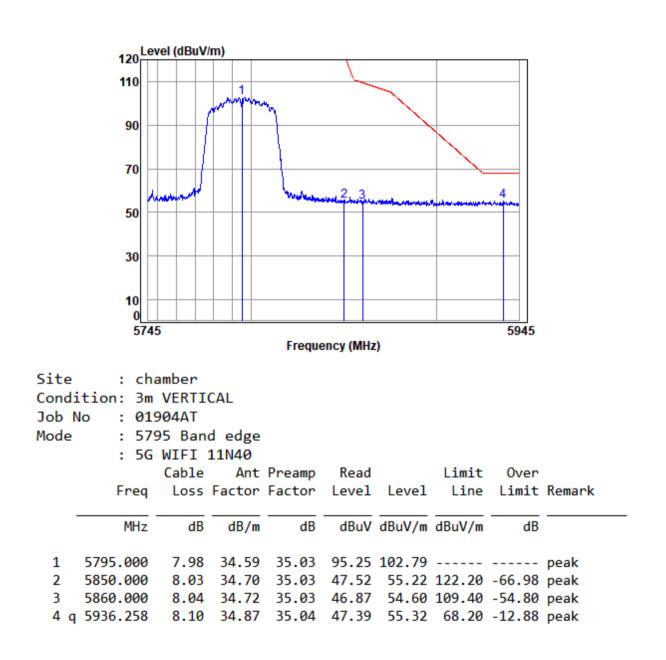
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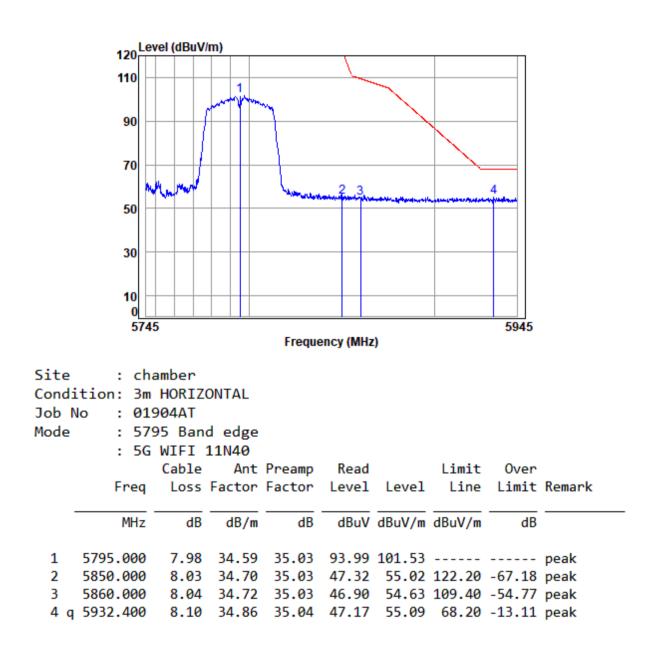
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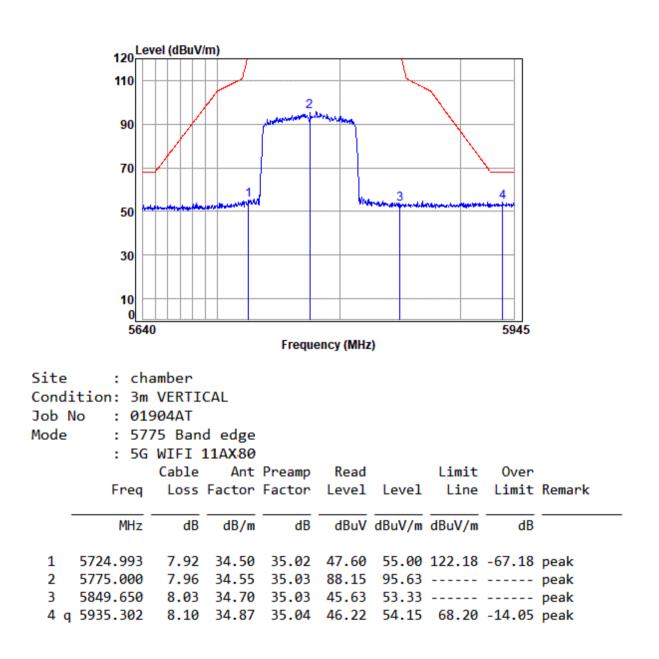
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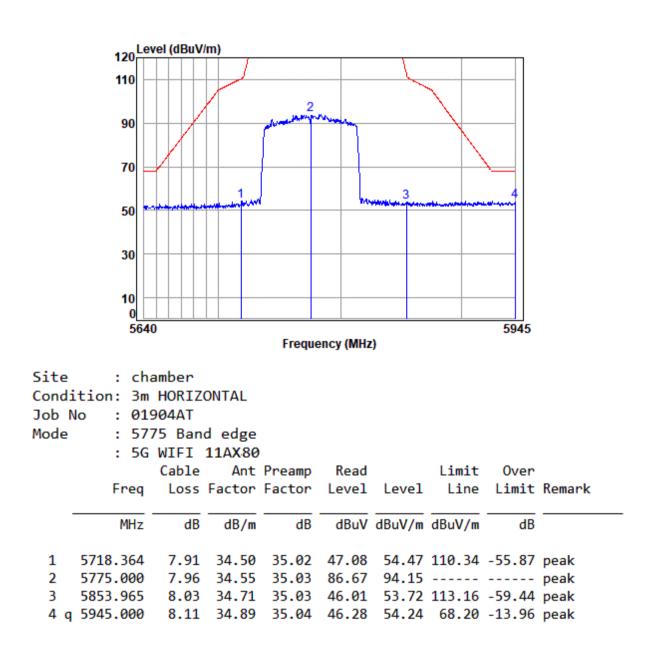
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### 7.10 Frequency Stability

| Test Requirement | 47 CFR Part 15, Subpart E 15.407 (g) |
|------------------|--------------------------------------|
| Test Method:     | ANSI C63.10 (2013) Section 6.8       |

### 7.10.1 E.U.T. Operation

Operating Environment: Temperature: 24.9 °C Humidity: 68.7 % RH Atmospheric Pressure: 1008 mbar

#### 7.10.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description   |
|--------------------------|--------------|---|
| Final test               | 05           | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.  |
| Final test               | 06           | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Final test               | 07           | TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.   |



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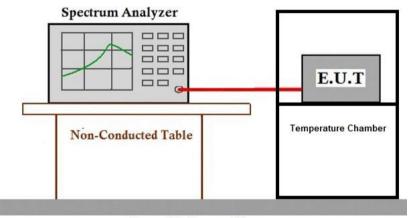
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TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of 08 IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.10.3 Test Setup Diagram

Final test



**Ground Reference Plane** 

#### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.11 Radiated Emissions (Below 1GHz)

| Test Requirement | 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) |
|------------------|--|
| Test Method:     | KDB 789033 D02 II G                                    |

Limit:

| Frequency (MHz) | Field strength(microvolts/meter) | Measurement distance<br>(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                                |
| 960-1000        | 500                              | 3                                |

### 7.11.1 E.U.T. Operation

Shenzhen B

aboratory.

| Operating Enviro | nment:  |           |           |                                 |
|------------------|---------|-----------|-----------|---------------------------------|
| Temperature:     | 23.6 °C | Humidity: | 56.3 % RH | Atmospheric Pressure: 1008 mbar |

#### 7.11.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code        | Description  |
|--------------------------|---------------------|--|
| Final test               | 05                  | TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. |
| Pre-scan                 | 06                  | TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with<br>all modulation types. All data rates for each modulation type have been<br>tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a;<br>data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @<br>MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the<br>worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case<br>of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br>802.11ac(VHT80), data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE<br>802.11ax(HEW80), final test modes are considering the modulation and<br>worse data rates. Only the data of worst case is recorded in the report.   |
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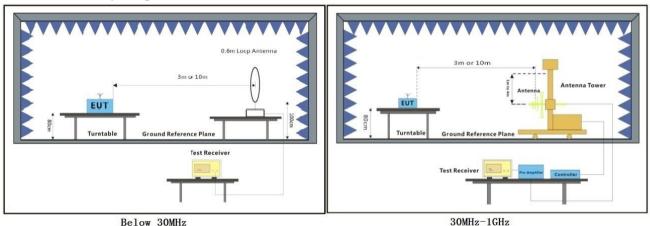
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TX mode (U-NII-2C) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case Pre-scan 07 of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report. TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a: data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of Pre-scan 08 IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



#### 7.11.3 Test Setup Diagram



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#### 7.11.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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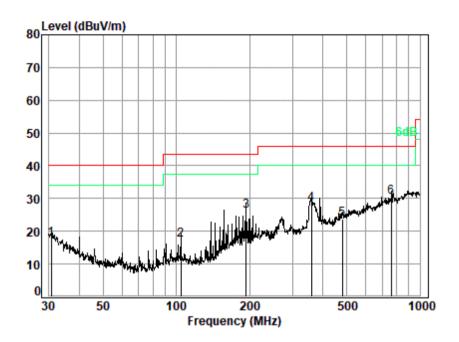
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Test Mode: 05; Polarity: Horizontal



Site : chamber Condition: 3m HORIZONTAL Job No. : 01904AT/01905AT Test Mode: 05

|     |        | Ant    | Cable | Preamp | Read  |        | Limit  | 0ver   |        |
|-----|--------|--------|-------|--------|-------|--------|--------|--------|--------|
|     | Freq   | Factor | Loss  | Factor | Level | Level  | Line   | Limit  | Remark |
| -   |        |        |       |        |       |        |        |        |        |
|     | MHz    | dB/m   | dB    | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
|     |        |        |       |        |       |        |        |        |        |
| 1   | 30.64  | 21.07  | 0.63  | 27.23  | 23.30 | 17.77  | 40.00  | -22.23 | QP     |
| 2   | 104.17 | 12.96  | 1.16  | 26.98  | 30.14 | 17.28  | 43.50  | -26.22 | QP     |
| 3   | 193.77 | 14.57  | 1.66  | 26.62  | 36.58 | 26.19  | 43.50  | -17.31 | QP     |
| 4   | 359.19 | 20.71  | 2.33  | 26.38  | 31.74 | 28.40  | 46.00  | -17.60 | QP     |
| 5   | 480.53 | 23.19  | 2.75  | 26.74  | 24.55 | 23.75  | 46.00  | -22.25 | QP     |
| 6 q | 763.38 | 26.64  | 3.58  | 26.45  | 26.52 | 30.29  | 46.00  | -15.71 | QP     |
|     |        |        |       |        |       |        |        |        |        |



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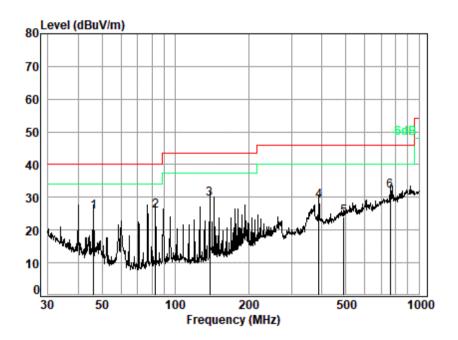
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Test Mode: 05; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No. : 01904AT/01905AT Test Mode: 05

|     |        | Ant    | Cable | Preamp | Read  |        | Limit  | 0ver   |        |
|-----|--------|--------|-------|--------|-------|--------|--------|--------|--------|
|     | Freq   | Factor | Loss  | Factor | Level | Level  | Line   | Limit  | Remark |
|     |        |        |       |        |       |        |        |        |        |
|     | MHz    | dB/m   | dB    | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
|     |        |        |       |        |       |        |        |        |        |
| 1   | 46.18  | 13.29  | 0.74  | 27.18  | 38.82 | 25.67  | 40.00  | -14.33 | QP     |
| 2   | 82.94  | 11.02  | 1.03  | 27.06  | 40.86 | 25.85  | 40.00  | -14.15 | QP     |
| 3 q | 138.39 | 11.88  | 1.35  | 26.85  | 43.10 | 29.48  | 43.50  | -14.02 | QP     |
| 4   | 389.35 | 21.40  | 2.44  | 26.47  | 31.45 | 28.82  | 46.00  | -17.18 | QP     |
| 5   | 490.74 | 22.94  | 2.78  | 26.77  | 25.23 | 24.18  | 46.00  | -21.82 | QP     |
| 6   | 763.38 | 26.64  | 3.58  | 26.45  | 28.06 | 31.83  | 46.00  | -14.17 | QP     |
|     |        |        |       |        |       |        |        |        |        |



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#### **Test Setup Photo** 8

Refer to Appendix - Test Setup Photo for SZCR230600190405

#### **EUT Constructional Details (EUT Photos)** 9

Refer to Appendix - External and Internal Photos for SZCR2306001904AT



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# **10** Appendix

### 1. Duty Cycle

### 1.1 Ant1

### 1.1.1 Test Result

|         |      |           |    |     |         | Ant1    |            |                        |               |
|---------|------|-----------|----|-----|---------|---------|------------|------------------------|---------------|
| Mode    | ТΧ   | Frequency | RU | RU  | T_on    | Period  | Duty Cycle |                        | Max. DC       |
| wode    | Туре | (MHz)     | κυ | Pos | (ms)    | (ms)    | (%)        | Correction Factor (dB) | Variation (%) |
|         |      | 5180      | /  | /   | 66.320  | 67.377  | 98.43      | 0.07                   | 0.00          |
|         |      | 5200      | /  | /   | 36.533  | 37.590  | 97.19      | 0.12                   | 0.00          |
|         |      | 5240      | /  | /   | 31.863  | 32.847  | 97.00      | 0.13                   | 0.00          |
|         |      | 5260      | /  | /   | 1.392   | 2.021   | 68.88      | 1.62                   | 0.30          |
|         |      | 5300      | /  | /   | 36.820  | 37.880  | 97.20      | 0.12                   | 0.00          |
| 802.11a | SISO | 5320      | /  | /   | 35.640  | 36.700  | 97.11      | 0.13                   | 0.00          |
| 002.11a | 3130 | 5500      | /  | /   | 61.877  | 62.930  | 98.33      | 0.07                   | 0.00          |
|         |      | 5580      | /  | /   | 78.767  | 79.823  | 98.68      | 0.06                   | 0.00          |
|         |      | 5700      | /  | /   | 1.392   | 1.427   | 97.55      | 0.11                   | 0.03          |
|         |      | 5745      | /  | /   | 80.480  | 81.540  | 98.70      | 0.06                   | 0.00          |
|         |      | 5785      | /  | /   | 1.398   | 1.436   | 97.35      | 0.12                   | 0.61          |
|         |      | 5825      | /  | /   | 22.087  | 23.147  | 95.42      | 0.20                   | 0.00          |
|         |      | 5180      | /  | /   | 100.000 | 100.000 | 100.00     | 0.00                   | 0.00          |
|         |      | 5200      | /  | /   | 11.847  | 12.800  | 92.55      | 0.34                   | 0.00          |
|         |      | 5240      | /  | /   | 34.713  | 35.600  | 97.51      | 0.11                   | 0.00          |
|         |      | 5260      | /  | /   | 6.660   | 6.687   | 99.60      | 0.02                   | 0.00          |
|         |      | 5300      | /  | /   | 10.900  | 11.863  | 91.88      | 0.37                   | 0.00          |
| 802.11n | мімо | 5320      | /  | /   | 38.693  | 38.733  | 99.90      | 0.00                   | 0.00          |
| (HT20)  |      | 5500      | /  | /   | 50.477  | 51.433  | 98.14      | 0.08                   | 0.00          |
|         |      | 5580      | /  | /   | 38.200  | 39.157  | 97.56      | 0.11                   | 0.00          |
|         |      | 5700      | /  | /   | 1.300   | 2.361   | 55.06      | 2.59                   | 12.68         |
|         |      | 5745      | /  | /   | 29.347  | 30.287  | 96.90      | 0.14                   | 0.00          |
|         |      | 5785      | /  | /   | 77.487  | 78.443  | 98.78      | 0.05                   | 0.00          |
|         |      | 5825      | /  | /   | 20.807  | 21.763  | 95.61      | 0.20                   | 0.00          |
|         |      | 5190      | /  | /   | 22.870  | 23.520  | 97.24      | 0.12                   | 0.00          |
| 802.11n |      | 5230      | /  | /   | 95.653  | 96.290  | 99.34      | 0.03                   | 0.00          |
| (HT40)  | MIMO | 5270      | /  | /   | 22.527  | 23.150  | 97.31      | 0.12                   | 0.00          |
|         |      | 5310      | /  | /   | 29.354  | 29.384  | 99.90      | 0.00                   | 0.00          |



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|---------------------|------|------|-------|------|--------|--------|-------|----------------|-------|
|                     |      | 5510 | /     | /    | 39.710 | 40.343 | 98.43 | 0.07           | 0.00  |
|                     |      | 5550 | /     | /    | 0.649  | 0.684  | 94.88 | 0.23           | 0.07  |
|                     |      | 5670 | /     | /    | 37.140 | 37.793 | 98.27 | 0.08           | 0.00  |
|                     |      | 5755 | /     | /    | 15.010 | 15.040 | 99.80 | 0.01           | 0.11  |
|                     |      | 5795 | /     | /    | 23.893 | 24.523 | 97.43 | 0.11           | 0.00  |
|                     |      | 5180 | /     | /    | 1.312  | 1.376  | 95.35 | 0.21           | 2.08  |
|                     |      | 5200 | /     | /    | 1.312  | 1.347  | 97.40 | 0.11           | 0.03  |
|                     |      | 5240 | /     | /    | 1.315  | 3.178  | 41.38 | 3.83           | 30.69 |
|                     |      | 5260 | /     | /    | 1.312  | 1.347  | 97.40 | 0.11           | 0.03  |
|                     |      | 5300 | /     | /    | 1.313  | 1.376  | 95.42 | 0.20           | 2.08  |
| 802.11ac            | мімо | 5320 | /     | /    | 1.312  | 1.347  | 97.40 | 0.11           | 0.03  |
| (VHT20)             |      | 5500 | /     | /    | 1.312  | 1.347  | 97.40 | 0.11           | 0.04  |
|                     |      | 5580 | /     | /    | 1.312  | 1.347  | 97.40 | 0.11           | 0.03  |
|                     |      | 5700 | /     | /    | 1.313  | 1.348  | 97.40 | 0.11           | 0.07  |
|                     |      | 5745 | /     | /    | 1.313  | 1.977  | 66.41 | 1.78           | 1.56  |
|                     |      | 5785 | /     | /    | 1.313  | 1.347  | 97.48 | 0.11           | 0.03  |
|                     |      | 5825 | /     | /    | 1.312  | 1.347  | 97.40 | 0.11           | 0.03  |
|                     |      | 5190 | /     | /    | 0.652  | 0.688  | 94.77 | 0.23           | 0.13  |
|                     |      | 5230 | /     | /    | 0.652  | 0.688  | 94.77 | 0.23           | 0.10  |
|                     | MIMO | 5270 | /     | /    | 0.652  | 0.687  | 94.91 | 0.23           | 0.07  |
|                     |      | 5310 | /     | /    | 0.652  | 0.688  | 94.77 | 0.23           | 0.10  |
| 802.11ac<br>(VHT40) |      | 5510 | /     | /    | 0.652  | 0.687  | 94.91 | 0.23           | 0.03  |
| (11140)             |      | 5550 | /     | /    | 0.652  | 0.686  | 95.04 | 0.22           | 0.04  |
|                     |      | 5670 | /     | /    | 0.652  | 0.687  | 94.91 | 0.23           | 0.13  |
|                     |      | 5755 | /     | /    | 0.654  | 1.299  | 50.35 | 2.98           | 0.72  |
|                     |      | 5795 | /     | /    | 0.652  | 0.687  | 94.91 | 0.23           | 0.03  |
|                     |      | 5210 | /     | /    | 0.324  | 0.359  | 90.25 | 0.45           | 0.07  |
| 000 44              |      | 5290 | /     | /    | 0.324  | 0.359  | 90.25 | 0.45           | 0.04  |
| 802.11ac<br>(VHT80) | MIMO | 5530 | /     | /    | 0.324  | 0.359  | 90.25 | 0.45           | 0.07  |
| (11100)             | _    | 5610 | /     | /    | 0.324  | 0.359  | 90.25 | 0.45           | 0.03  |
|                     |      | 5775 | /     | /    | 0.324  | 0.359  | 90.25 | 0.45           | 0.10  |
|                     |      | 5180 | RU242 | Left | 38.787 | 39.447 | 98.33 | 0.07           | 0.00  |
|                     |      | 5200 | RU242 | Left | 67.124 | 67.800 | 99.00 | 0.04           | 0.00  |
|                     |      | 5240 | RU242 | Left | 24.123 | 24.156 | 99.86 | 0.01           | 0.00  |
| 000 44              |      | 5260 | RU242 | Left | 7.927  | 8.597  | 92.21 | 0.35           | 0.00  |
| 802.11ax<br>(HEW20) | MIMO | 5300 | RU242 | Left | 11.820 | 12.487 | 94.66 | 0.24           | 0.00  |
|                     |      | 5320 | RU242 | Left | 54.523 | 54.556 | 99.94 | 0.00           | 0.00  |
|                     |      | 5500 | RU242 | Left | 24.697 | 25.363 | 97.37 | 0.12           | 0.00  |
|                     |      | 5580 | RU242 | Left | 16.760 | 16.780 | 99.88 | 0.01           | 0.00  |
|                     |      | 5700 | RU242 | Left | 28.297 | 28.330 | 99.88 | 0.01           | 0.04  |



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|---------------------|------|------|-------|------|--------|--------|-------|----------------|-------|
|                     |      | 5745 | RU242 | Left | 17.803 | 17.850 | 99.74 | 0.01           | 0.00  |
|                     |      | 5785 | RU242 | Left | 31.787 | 32.463 | 97.92 | 0.09           | 0.00  |
|                     |      | 5825 | RU242 | Left | 73.173 | 73.850 | 99.08 | 0.04           | 0.00  |
|                     |      | 5190 | RU484 | Left | 73.697 | 74.170 | 99.36 | 0.03           | 0.00  |
|                     |      | 5230 | RU484 | Left | 0.153  | 0.190  | 80.53 | 0.94           | 17.30 |
|                     |      | 5270 | RU484 | Left | 64.163 | 64.660 | 99.23 | 0.03           | 0.00  |
| 000 44 -            |      | 5310 | RU484 | Left | 2.036  | 2.073  | 98.22 | 0.08           | 1.36  |
| 802.11ax<br>(HEW40) | ΜΙΜΟ | 5510 | RU484 | Left | 0.067  | 0.085  | 78.82 | 1.03           | 0.18  |
| (1121140)           |      | 5550 | RU484 | Left | 89.497 | 89.947 | 99.50 | 0.02           | 0.00  |
|                     |      | 5670 | RU484 | Left | 2.037  | 2.073  | 98.26 | 0.08           | 1.44  |
|                     |      | 5755 | RU484 | Left | 48.530 | 49.007 | 99.03 | 0.04           | 0.00  |
|                     |      | 5795 | RU484 | Left | 2.037  | 2.073  | 98.26 | 0.08           | 1.44  |
|                     |      | 5210 | RU996 | Left | 5.290  | 5.577  | 94.85 | 0.23           | 4.83  |
| 000.44              |      | 5290 | RU996 | Left | 66.727 | 66.977 | 99.63 | 0.02           | 0.00  |
| 802.11ax<br>(HEW80) | MIMO | 5530 | RU996 | Left | 0.177  | 0.194  | 91.24 | 0.40           | 6.84  |
|                     |      | 5610 | RU996 | Left | 30.603 | 30.836 | 99.24 | 0.03           | 0.71  |
|                     |      | 5775 | RU996 | Left | 22.533 | 22.540 | 99.97 | 0.00           | 0.00  |



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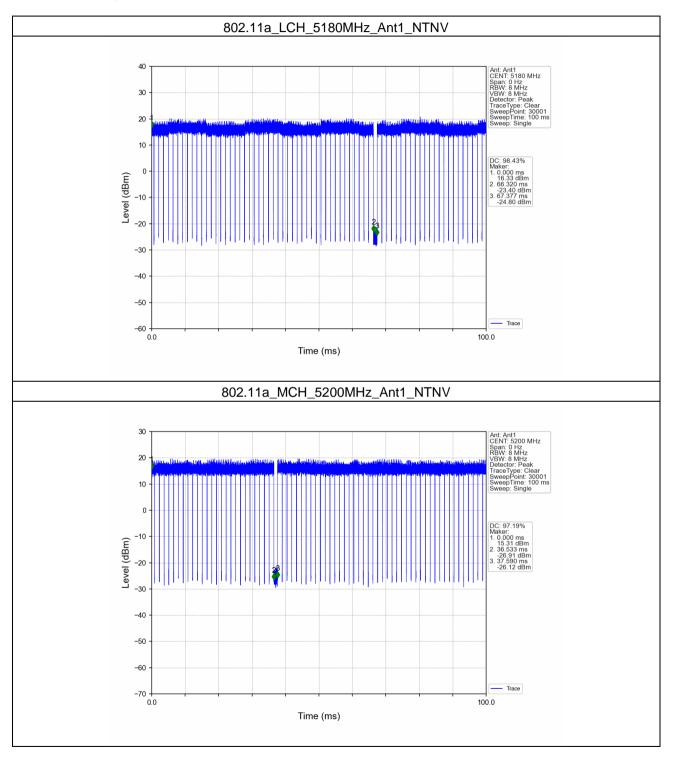
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### 1.1.2 Test Graph





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检验检测专用章

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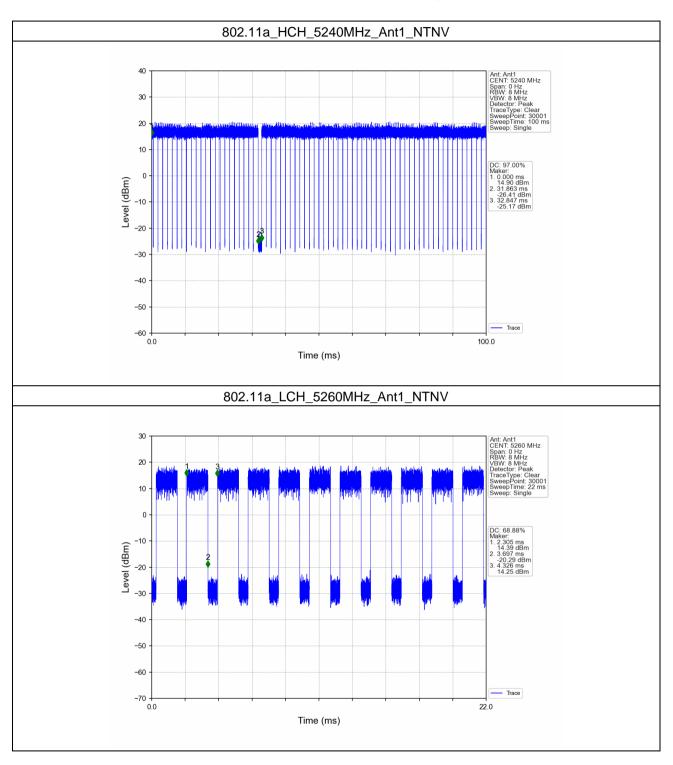
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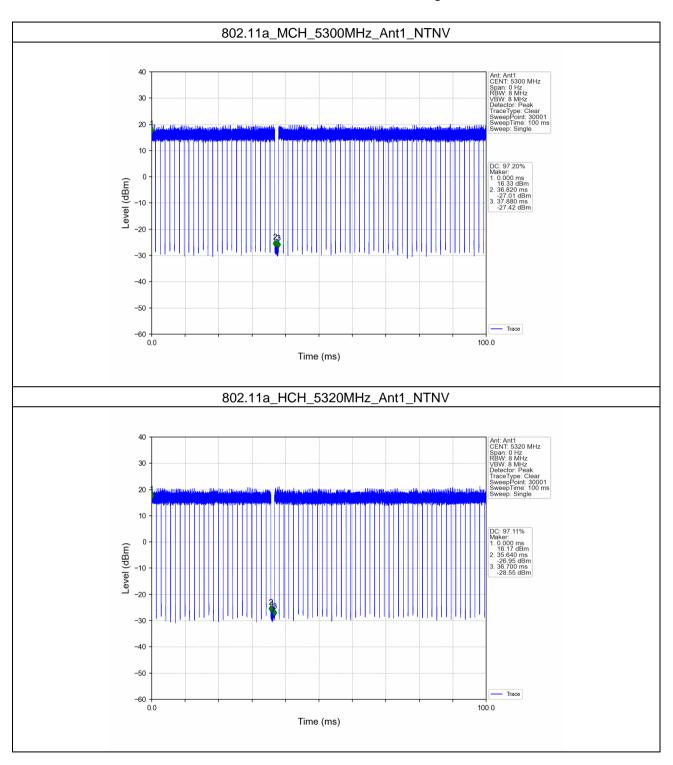


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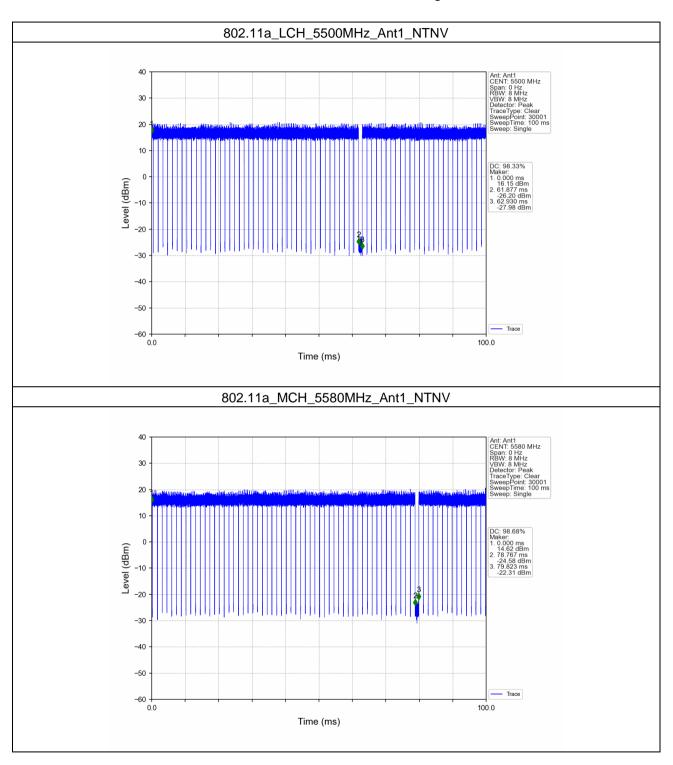
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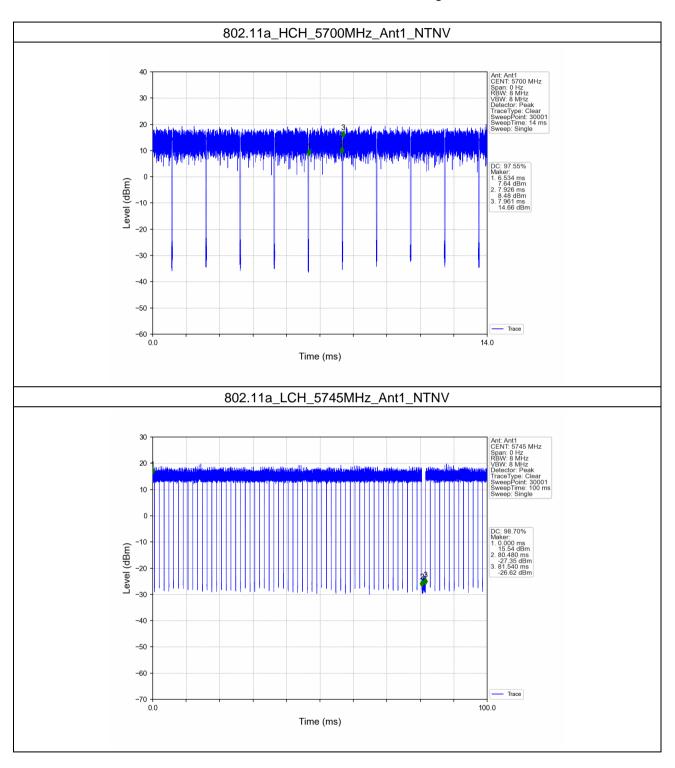
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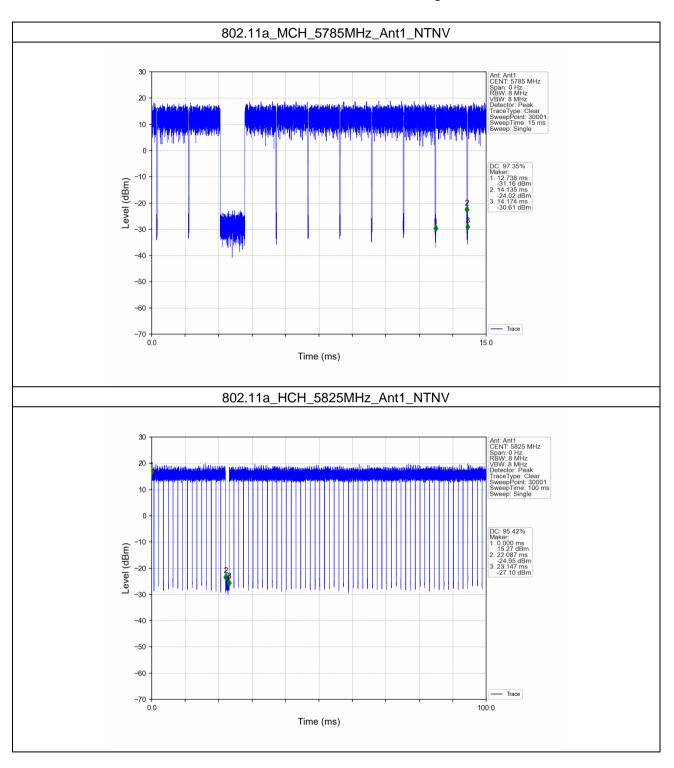
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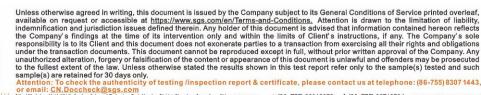
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