



FCC RADIO TEST REPORT

Applicant : LITE-ON Technology Corp.
Address : Bldg. C, 90, Chien 1 Rd., Chung-Ho, New Taipei City, 23585, Taiwan
Equipment : Indoor Wi-Fi 6 Access Point
Model No. : WPX8324-BT
Trade Name : LITEON
FCC ID : PPQ-WPX8324BT

I HEREBY CERTIFY THAT :

The sample was received on Oct 12, 2023 and the testing was completed on Oct. 13, 2023 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





Contents

| | |
|---|------------|
| 1. Summary of Test Procedure and Test Results | 5 |
| 1.1 Applicable Standards | 5 |
| 2. Test Configuration of Equipment under Test | 6 |
| 2.1 Feature of Equipment under Test | 6 |
| 2.2 Carrier Frequency of Channels | 7 |
| 2.3 Test Mode and Test Software | 8 |
| 2.4 Description of Test System | 10 |
| 2.5 General Information of Test | 12 |
| 2.6 Measurement Uncertainty | 13 |
| 3. Test Equipment and Ancillaries Used for Tests | 14 |
| 4. Antenna Requirements | 16 |
| 4.1 Standard Applicable | 16 |
| 4.2 Antenna Construction and Directional Gain | 16 |
| 5. Test of AC Power Line Conducted Emission | 17 |
| 5.1 Test Limit | 17 |
| 5.2 Test Procedures | 17 |
| 5.3 Typical Test Setup | 18 |
| 5.4 Test Result and Data | 19 |
| 5.5 Test Photographs | 23 |
| 6. Test of Radiated Spurious Emission | 24 |
| 6.1 Test Limit | 24 |
| 6.2 Test Procedures | 25 |
| 6.3 Typical Test Setup | 26 |
| 6.4 Test Result and Data (9KHz ~ 30MHz) | 27 |
| 6.5 Test Result and Data (30MHz ~ 1GHz) | 27 |
| 6.6 Test Result and Data (1GHz ~ 25GHz) | 31 |
| 6.7 Restricted Bands of Operation | 67 |
| 6.8 Test Photographs (30MHz ~ 1GHz) | 68 |
| 6.9 Test Photographs (1GHz ~ 25GHz) | 70 |
| 7. Test of Conducted Spurious Emission | 73 |
| 7.1 Test Limit | 73 |
| 7.2 Test Procedure | 73 |
| 7.3 Test Setup Layout | 73 |
| 7.4 Test Result and Data | 73 |
| 8. On Time, Duty Cycle and Measurement methods | 98 |
| 8.1 Test Limit | 98 |
| 8.2 Test Procedure | 98 |
| 8.3 Test Setup Layout | 98 |
| 8.4 Test Result and Data | 98 |
| 9. 6dB Bandwidth Measurement Data | 101 |
| 9.1 Test Limit | 101 |
| 9.2 Test Procedures | 101 |



9.3 Test Setup Layout 101

9.4 Test Result and Data 102

10. Maximum Average Output Power 109

10.1 Test Limit 109

10.2 Test Procedures 109

10.3 Test Setup Layout 109

10.4 Test Result and Data 110

11. Power Spectral Density 111

11.1 Test Limit 111

11.2 Test Procedures 111

11.3 Test Setup Layout 111

11.4 Test Result and Data 112

12. Radio Frequency Exposure 119

12.1 Applicable Standards 119

12.2 EUT Specification 119

12.3 Maximum Permissible Exposure 120



History of this test report

| Report No. | Issued Date | Description |
|------------------|---------------|-------------|
| 23100112-TRFCC01 | Oct. 20, 2023 | Original |
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1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

| FCC Rule | Description of Test | Result |
|------------------|------------------------------------|--------|
| 15.203 | . Antenna Requirement | PASS |
| 15.207 | . AC Power Line Conducted Emission | PASS |
| 15.209 15.205 | . Radiated Spurious Emission | PASS |
| 15.247(d) | . Conducted Spurious Emission | PASS |
| 15.247(a)(2) | . 6dB Bandwidth | PASS |
| 15.247(b) | . Output Power | PASS |
| 15.247(e) | . Power Spectral Density | PASS |
| 2.1091 | . Radio Frequency Exposure | PASS |

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.

The difference is list below:

1. WPX8324-BT is WRX8324(FCC ID:PPQ-WPX8324) Remove TPM & USB components, software disable Bluetooth & remove Bluetooth antenna.
2. Remove PoE optical coupling Component

After engineering evaluation, the following item need to Retest:

1. AC Power Line Conducted Emission
2. LF(Below 1GHz) Radiated Spurious Emission

Refer to original report for other test categories. Test report number: 22090062-TRFCC01



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

| | |
|---------------------------|---|
| Operation Frequency Range | 802.11b/g/n(TurboQAM)/ax: 2400-2483.5MHz 802.11a/n/ac/ax: 5150-5250MHz, 5725-5850MHz |
| Center Frequency Range | 802.11b/g/n(TurboQAM)/ax: 2412-2462MHz 802.11a/n/ac/ax: 5180-5240MHz, 5745-5825MHz |
| Modulation Type | 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM(TurboQAM) 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM |
| Modulation Technology | DSSS, OFDM, OFDMA |
| Data Rate | 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 MCS0 – MCS9, VHT20/40(TurboQAM) 802.11ax: MCS0 – MCS11,HE20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80 802.11ax: MCS0 – MCS11, HE20/40/80 |
| Antenna Type | PIFA Antenna |
| Antenna Gain | 2400-2500MHz: ANT 1: 3.96dBi, ANT 2: 3.52dBi 5150-5250MHz: ANT 1: 4.76dBi, ANT 2: 4.37dBi 5725-5850MHz: ANT 1: 4.73dBi, ANT 2: 3.72dBi |

Note:

1. WLAN 2.4G 802.11n Support TurboQAM.
2. EUT support TPC Function.
3. EUT support AP Master Mode.
4. 802.11ax support beamforming Function.
5. EUT Indoor access point
6. For more details, please refer to the User’s manual of the EUT.

The differences between all model numbers as follow:

| Model No. | Difference |
|------------|------------------------|
| WPX8324-BT | with PoE & Without PoE |

Note: After engineering evaluation, Without PoE for worst case and for presentation of report data



2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20, VHT20, 802.11ax HE20 (2412MHz-2462MHz)

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|------------|----------------|------------|----------------|
| *01 | 2412 | 07 | 2442 |
| 02 | 2417 | 08 | 2447 |
| 03 | 2422 | 09 | 2452 |
| 04 | 2427 | 10 | 2457 |
| 05 | 2432 | *11 | 2462 |
| *06 | 2437 | --- | --- |

802.11n HT40, VHT40, 802.11ax HE40 (2422MHz-2452MHz)

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|------------|----------------|------------|----------------|
| --- | --- | 07 | 2442 |
| --- | --- | 08 | 2447 |
| *03 | 2422 | *09 | 2452 |
| 04 | 2427 | --- | --- |
| 05 | 2432 | --- | --- |
| *06 | 2437 | --- | --- |

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- c. An executive program, " QSPR V 5.0-00198" under Windows OS system was executed to transmit and receive data via WLAN. (Non BeamForming)
- d. An executive program, " wl command" under Windows OS system was executed to transmit and receive data via WLAN. (BeamForming)
- e. The following test modes were performed for the test:

For 22090062-TRFCC01

| Radiation Emissions (1GHz ~ 25GHz) | |
|--|--|
| Test Mode | Operating Description |
| 1 | 802.11b (1Mbps) , Power from Adapter, Non BeamForming |
| 2 | 802.11g (6Mbps) , Power from Adapter ,Non BeamForming |
| 3 | 802.11ax HE20 (7.3Mbps) , Power from Adapter ,Non BeamForming |
| 4 | 802.11ax HE40 (14.6Mbps) , Power from Adapter ,Non BeamForming |
| 5 | 802.11ax HE20 (7.3Mbps) , Power from Adapter , BeamForming |
| 6 | 802.11ax HE40 (14.6Mbps) , Power from Adapter , BeamForming |
| caused "Test Mode 1~6" generated the worst case, they were reported as the final data. | |

Note:For Radiated Spurious Emission(1GHz ~ 40GHz),AC 120V / 60Hz is worst case.

For retest data

| Conducted Emissions from the AC mains power ports | |
|---|---|
| Test Mode | Operating Description |
| 1 | 802.11b (1Mbps) , Power from Adapter, Non BeamForming |
| 2 | 802.11g (6Mbps) , Power from Adapter ,Non BeamForming |
| 3 | 802.11ax HE20 (7.3Mbps) , Power from Adapter,Non BeamForming |
| 4 | 802.11ax HE40 (14.6Mbps) , Power from Adapter,Non BeamForming |
| 5 | 802.11ax HE20 (7.3Mbps) , Power from Adapter , BeamForming |
| 6 | 802.11ax HE40 (14.6Mbps) , Power from Adapter , BeamForming |
| caused "Test Mode 2,6" generated the worst case, it was reported as the final data. | |

| Radiation Emissions (BELOW 1GHz) | |
|--|--|
| Test Mode | Operating Description |
| 1 | 802.11b (1Mbps) , Power from Adapter, Non BeamForming |
| 2 | 802.11g (6Mbps) , Power from POE, Adapter BeamForming |
| 3 | 802.11ax HE20 (7.3Mbps) , Power from Adapter ,Non BeamForming |
| 4 | 802.11ax HE40 (14.6Mbps) , Power from Adapter ,Non BeamForming |
| 5 | 802.11ax HE20 (7.3Mbps) , Power from Adapter , BeamForming |
| 6 | 802.11ax HE40 (14.6Mbps) , Power from Adapter, BeamForming |
| caused "Test Mode 2,6" generated the worst case, they were reported as the final data. | |

Note:1. There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.
For AC Power Line Conducted Emission,& Radiation Emissions (BELOW 1GHz)
AC 240V / 60Hz is worst case.



The EUT incorporates a MIMO function

| Modulation Type | TX CONFIGURATION |
|------------------------|------------------|
| 802.11b | 2TX |
| 802.11g | 2TX |
| 802.11n HT20 | 2TX |
| 802.11n HT40 | 2TX |
| 802.11n HT20(TurboQAM) | 2TX |
| 802.11n HT40(TurboQAM) | 2TX |
| 802.11ax HE20 | 2TX |
| 802.11ax HE40 | 2TX |



2.4 Description of Test System

For 22090062-TRFCC01

Non BeamForming

| RF Conducted | | | | |
|--------------------|-----------------|-----------|-------------|------------------------|
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | DELL | P23T001 | N/A | Adapter / 1.8m / NS |
| RJ45 Cable * 2 | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| POE | CERIO | S53VG | N/A | N/A |
| Radiated Emissions | | | | |
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Adapter | APD | WB-18D12R | 1.8m / NS | N/A |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| RJ45 Cable | N/A | N/A | 15m / NS | N/A |
| POE | CERIO | S53VG | N/A | N/A |

BeamForming

| RF Conducted | | | | |
|--------------------|-----------------|-----------|-------------|------------------------|
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | Lenovo | S1GL2W | N/A | Adapter / 1.8m / NS |
| Notebook | Lenovo | S1GL2W | N/A | Adapter / 1.8m / NS |
| RJ45 Cable * 3 | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| POE | CERIO | S53VG | N/A | N/A |
| Adapter | APD | WB-18D12R | N/A | N/A |
| Radiated Emissions | | | | |
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Adapter | APD | WB-18D12R | 1.8m / NS | N/A |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| RJ45 Cable | N/A | N/A | 15m / NS | N/A |
| POE | CERIO | S53VG | N/A | N/A |
| Notebook | Lenovo | S1GL2W | N/A | Adapter / 1.8m / NS |
| RJ45 Cable*2 | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |



For Retest data

| Radiated Emissions | | | | |
|----------------------------------|---------------------------|----------------|-------------|------------------------|
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| Notebook | DELL | Latitude E5470 | N/A | Adapter / 1.8m / NS |
| Power Cord | Powersync | TPCMRN0006 | 1.2m / NS | N/A |
| RJ45 Cable | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| RJ45 Cable | TE CONNECTIVITY | CAT5E | 15m / NS | N/A |
| POE | Cambium Networks | NET-P60-56IN | N/A | N/A |
| Adapter | Asian Power Devicers Inc. | WB-18D12R | 1.8m / NS | N/A |
| AC Power Line Conducted Emission | | | | |
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| RJ45 Cable*2 | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| Notebook | DELL | Latitude E5470 | N/A | Adapter / 1.8m / NS |
| Power Cord | Powersync | TPCMRN0006 | 1.2m / NS | N/A |
| POE | Cambium Networks | NET-P60-56IN | N/A | N/A |
| Adapter | Asian Power Devicers Inc. | WB-18D12R | 1.8m / NS | N/A |

**2.5 General Information of Test**

| | | |
|---|---|------------------|
| <input checked="" type="checkbox"/> Test Site | CerpPASS Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881 | |
| | FCC | TW1439, TW1079 |
| | IC | 4934E-1, 4934E-2 |
| Frequency Range Investigated | Conducted: from 150kHz to 30 MHz Radiation: from 9kHz to 25,000MHz | |
| Test Distance | The test distance of radiated emission from antenna to EUT is 3 M. | |

For 22090062-TRFCC01

Non BeamForming

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|--------------------|------------|-----------------------|--------------------------|------------|
| RF Conducted | RFCON01-NK | 2022/10/13~2022/11/08 | 24~27.1°C / 42~62% | Dian Chen |
| Radiated Emissions | 3M02-NK | 2022/10/12~2022/10/14 | 22~24°C / 39~43% | Leon Huang |

BeamForming

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|--------------------|------------|-----------------------|--------------------------|------------|
| RF Conducted | RFCON01-NK | 2022/10/17~2022/11/9 | 24~26.3°C / 49~62% | Dian Chen |
| Radiated Emissions | 3M02-NK | 2022/10/19~2022/10/28 | 20~24°C / 35~48% | Leon Huang |

For Retest data

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|----------------------------------|-----------|-------------|--------------------------|------------|
| Radiated Emissions | 3M02-NK | 2023/10/13 | 22°C / 44% | Leon Haung |
| AC Power Line Conducted Emission | CON02-NK | 2023/10/13 | 24°C / 59% | Leon Haung |



2.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

For 22090062-TRFCC01

| Measurement Item | Uncertainty |
|--|-------------|
| Radiated Spurious Emission(1GHz~25GHz) | ±6.8dB |
| Conducted Spurious Emission | ±1.8dB |
| 6dB Bandwidth | ±4.4% |
| 20dB Bandwidth | ±4.4% |
| Occupied Bandwidth | ±4.4% |
| Peak Output Power(Conducted Power Meter) | ±1.1dB |
| Dwell Time / Deactivation Time | ±1.2% |
| Power Spectral Density | ±1.8dB |
| Duty Cycle | ±1.2% |

For Retest data

| Measurement Item | Uncertainty |
|--|-------------|
| AC Power Line Conduction(150K~30MHz) | ±3.28dB |
| Radiated Spurious Emission(9KHz~30MHz) | ±3.5dB |
| Radiated Spurious Emission(30MHz~1GHz) | ±5.1dB |



3. Test Equipment and Ancillaries Used for Tests

For 22090062-TRFCC01

| Test Item | Radiated Emissions | | | | |
|----------------------------------|-----------------------------|---------------|-----------------|------------------|------------|
| Test Site | Semi Anechoic Room(3M02-NK) | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| Bilog Antenna | Schwarzbeck | VULB9168 | 275 | 2021/11/05 | 2022/11/04 |
| Active Loop Antenna | EMCO | 6507 | 40855 | 2022/05/25 | 2023/05/24 |
| Horn Antenna | EMCO | 3115 | 31589 | 2022/04/26 | 2023/04/25 |
| Horn Antenna | EMCO | 3116 | 31970 | 2022/03/18 | 2023/03/17 |
| Double Ridged Guide Horn Antenna | RF SPAN | DRH18-E | 210309A18-ES | 2022/08/24 | 2023/08/23 |
| EMI Receiver | ROHDE & SCHWARZ | ESCI | 101423 | 2022/07/05 | 2023/07/04 |
| Spectrum Analyzer | ROHDE & SCHWARZ | FSV 40-N | 101329 | 2022/07/20 | 2023/07/19 |
| Preamplifier | Agilent | 8449B | 3008A01954 | 2022/03/17 | 2023/03/16 |
| Preamplifier | EMC INSTRUMENTS | EMC184045 | 980065 | 2021/11/16 | 2022/11/15 |
| Preamplifier | EM Electronics corp. | EM330 | 60660 | 2022/04/08 | 2023/04/07 |
| Cable-6m(9k~300M) | NA | EMC5D-BM-BM-6 | 130605 | 2022/09/06 | 2023/09/05 |
| Cable-3in1(30M-1G) | HARBOUR INDUSTRIES | LL142 | CCE1315 | 2022/03/21 | 2023/03/20 |
| Cable-0.5m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | 28420/2 | 2022/4/9 | 2023/4/8 |
| Cable-3m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | MY2608/2 | 2022/4/9 | 2023/4/8 |
| Cable-0.5m(1G-40G) | Rapidtek | 40GHZ 50CM | 38MS-38MS50314 | 2022/4/9 | 2023/4/8 |
| Cable-3m(1G-40G) | Rapidtek | 40GHZ 300CM | 38MS-38MS300314 | 2022/4/9 | 2023/4/8 |
| Cable-0.5m(1G-40G) | HUBER SUHNER | SUCOFLEX 104 | 805443/4 | 2022/01/11 | 2023/01/10 |
| Cable-3m(1G-40G) | HUBER SUHNER | SUCOFLEX 104 | 805796/4 | 2022/01/11 | 2023/01/10 |
| Cable-8m(1G-26.5G) | WOKEN | WCBA-WCA203SM | CCE1374 | 2022/04/25 | 2023/04/24 |
| E3 | AUDIX | v8.2014-8-6 | RK-000529 | NA | NA |

| Test Item | RF Conducted | | | | |
|---------------------|--------------|----------|------------|------------------|------------|
| Test Site | RFCON01-NK | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| CAX Signal Analyzer | KEYSIGHT | N9000B | MY57100339 | 2022/01/10 | 2023/01/09 |
| Power Meter | Anritsu | ML2495A | 1224005 | 2022/04/12 | 2023/04/11 |
| Power Sensor | Anritsu | MA2411B | 1207295 | 2022/04/12 | 2023/04/11 |
| Attenuator | KEYSIGHT | 8491B | MY39250703 | 2022/04/12 | 2023/04/11 |



For Retest data

| Test Item | Radiated Emissions | | | | |
|---------------------|-----------------------------|----------------------|------------|------------------|------------|
| Test Site | Semi Anechoic Room(3M02-NK) | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| Bilog Antenna | Schwarzbeck | VULB9168 | 275 | 2022/11/18 | 2023/11/17 |
| Active Loop Antenna | Schwarzbeck | FMZB 1513 | 414 | 2023/02/03 | 2024/02/02 |
| Horn Antenna | EMCO | 3115 | 31589 | 2023/03/23 | 2024/03/22 |
| Horn Antenna | EMCO | 3116 | 31970 | 2023/03/03 | 2024/03/02 |
| EMI Receiver | ROHDE & SCHWARZ | ESCI | 101423 | 2023/07/05 | 2024/07/04 |
| Spectrum Analyzer | ROHDE & SCHWARZ | FSP 40 | 100047 | 2023/02/24 | 2024/02/23 |
| Preamplifier | Agilent | 8449B | 3008A01954 | 2023/03/08 | 2024/03/07 |
| Preamplifier | EMC INSTRUMENTS | EMC184045 | 980065 | 2022/11/11 | 2023/11/10 |
| Preamplifier | EM Electronics corp. | EM330 | 60659 | 2023/03/10 | 2024/03/09 |
| Cable-6m(9k~300M) | NA | EMC5D-BM-BM-6 | 130606 | 2023/03/13 | 2024/03/12 |
| Cable-3in1(30M-1G) | HARBOUR INDUSTRIES | LL142 | CCE1315 | 2023/02/25 | 2024/02/24 |
| Cable-0.5m(1G-40G) | HUBER SUHNER | SUCOFLEX 104 | 805443/4 | 2023/03/07 | 2024/03/06 |
| Cable-3m(1G-40G) | HUBER SUHNER | SUCOFLEX 104 | 805796/4 | 2023/03/07 | 2024/03/06 |
| Cable-8m(1G-26.5G) | WOKEN | WCBA-WCA203SM | CCE1374 | 2023/03/07 | 2024/03/06 |
| Cable-1m(1G-40G) | HUBER SUHNER | HUBER SUHNER / SF102 | 552450 | 2023/06/08 | 2024/06/07 |
| Cable-3m(1G-40G) | HUBER SUHNER | HUBER SUHNER / SF102 | 552451 | 2023/06/08 | 2024/06/07 |
| E3 | AUDIX | v8.2014-8-6 | RK-000529 | NA | NA |

| Test Item | AC Power Line Conducted Emission | | | | |
|--------------------|----------------------------------|-------------|-----------|------------------|------------|
| Test Site | CON02-NK | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| EMI Receiver | ROHDE & SCHWARZ | ESCI | 101423 | 2023/07/05 | 2024/07/04 |
| TWO-LINE V-NETWORK | ROHDE & SCHWARZ | ENV216 | 102185 | 2023/08/29 | 2024/08/28 |
| Cable-4m(9k-3G) | EMEC | RG-223 | 18274M | 2023/07/31 | 2024/07/30 |
| E3 | AUDIX | v8.2014-8-6 | RK-000531 | NA | NA |



4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

| | |
|--------------|--|
| Antenna Type | PIFA Antenna |
| Antenna Gain | 2400-2500MHz: ANT 1: 3.96dBi, ANT 2: 3.52dBi |

(Non-Beamforming)

2400-2500MHz

For Power directional gain= $G_{ant} = 3.96$ dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.75$ dBi

*MIMO type: Cyclic Delay Diversity (CDD) mode.

(Beamforming)

2400-2500MHz

For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.75$ dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 6.75$ dBi



5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency (MHz) | Quasi Peak (dB μ V) | Average (dB μ V) |
|-----------------|-------------------------|----------------------|
| 0.15 – 0.5 | 66-56* | 56-46* |
| 0.5 – 5.0 | 56 | 46 |
| 5.0 – 30.0 | 60 | 50 |

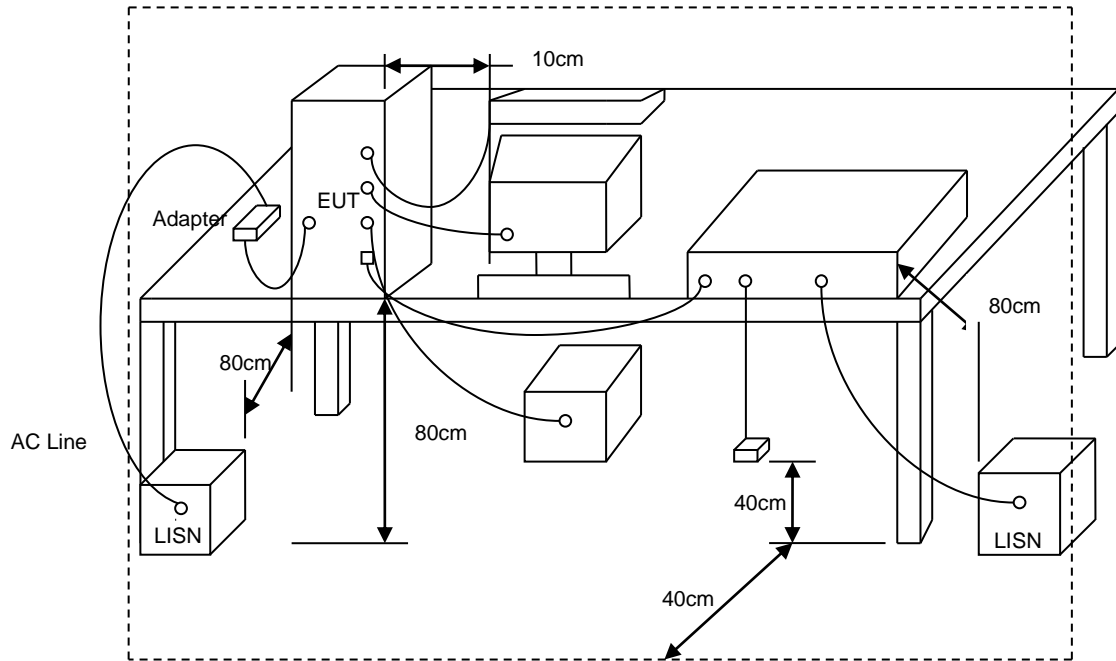
*Decreases with the logarithm of the frequency.

5.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



5.3 Typical Test Setup

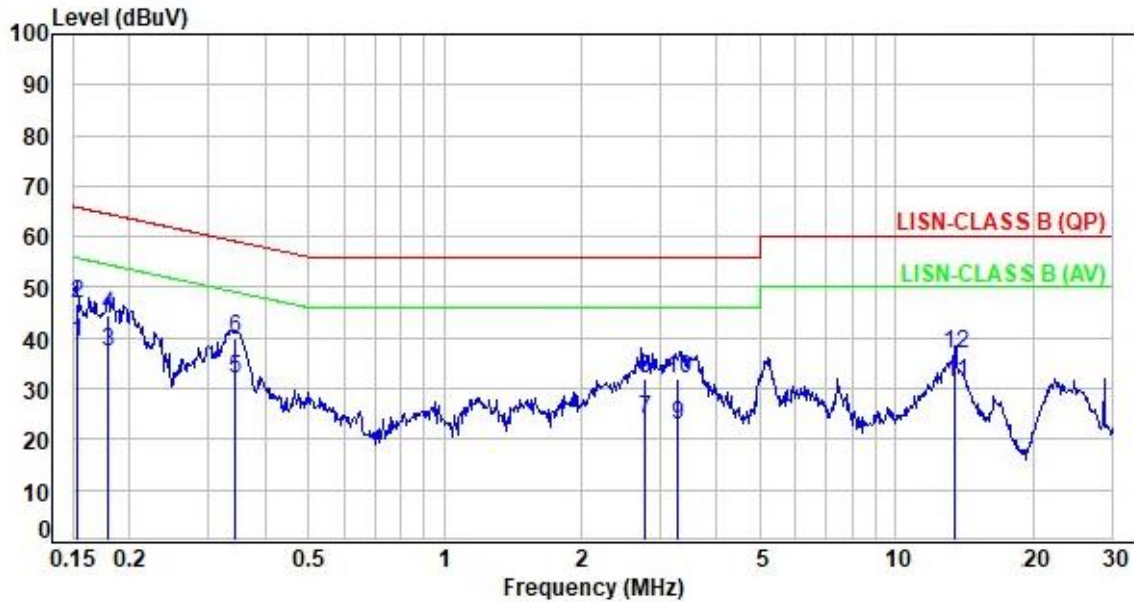




5.4 Test Result and Data

For Retest data
Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------|
| Power | : DC 12V From Adapter (240V/60Hz) | Pol/Phase | : LINE |
| Test Mode | : Mode 2 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.15 | 9.66 | 29.37 | 39.03 | 55.86 | -16.83 | Average | P |
| 2 | 0.15 | 9.66 | 36.97 | 46.63 | 65.86 | -19.23 | QP | P |
| 3 | 0.18 | 9.65 | 27.45 | 37.10 | 54.52 | -17.42 | Average | P |
| 4 | 0.18 | 9.65 | 34.76 | 44.41 | 64.52 | -20.11 | QP | P |
| 5 | 0.34 | 9.66 | 22.22 | 31.88 | 49.13 | -17.25 | Average | P |
| 6 | 0.34 | 9.66 | 30.11 | 39.77 | 59.13 | -19.36 | QP | P |
| 7 | 2.79 | 9.70 | 14.34 | 24.04 | 46.00 | -21.96 | Average | P |
| 8 | 2.79 | 9.70 | 22.38 | 32.08 | 56.00 | -23.92 | QP | P |
| 9 | 3.29 | 9.70 | 13.29 | 22.99 | 46.00 | -23.01 | Average | P |
| 10 | 3.29 | 9.70 | 22.41 | 32.11 | 56.00 | -23.89 | QP | P |
| 11 | 13.56 | 9.88 | 21.22 | 31.10 | 50.00 | -18.90 | Average | P |
| 12 | 13.56 | 9.88 | 26.84 | 36.72 | 60.00 | -23.28 | QP | P |

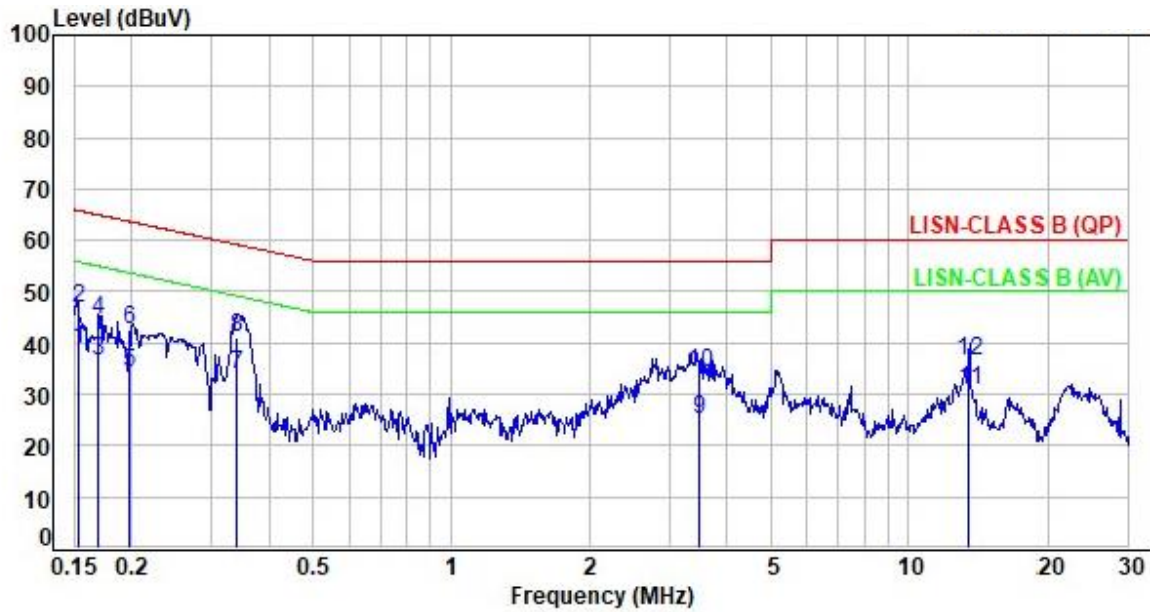
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



For Retest data

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|-----------|
| Power | : DC 12V From Adapter (240V/60Hz) | Pol/Phase | : NEUTRAL |
| Test Mode | : Mode 2 | | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.15 | 9.56 | 29.25 | 38.81 | 55.85 | -17.04 | Average | P |
| 2 | 0.15 | 9.56 | 37.05 | 46.61 | 65.85 | -19.24 | QP | P |
| 3 | 0.17 | 9.57 | 26.88 | 36.45 | 54.97 | -18.52 | Average | P |
| 4 | 0.17 | 9.57 | 35.11 | 44.68 | 64.97 | -20.29 | QP | P |
| 5 | 0.20 | 9.59 | 24.48 | 34.07 | 53.72 | -19.65 | Average | P |
| 6 | 0.20 | 9.59 | 33.11 | 42.70 | 63.72 | -21.02 | QP | P |
| 7 | 0.34 | 9.58 | 24.15 | 33.73 | 49.18 | -15.45 | Average | P |
| 8 | 0.34 | 9.58 | 31.61 | 41.19 | 59.18 | -17.99 | QP | P |
| 9 | 3.48 | 9.67 | 15.32 | 24.99 | 46.00 | -21.01 | Average | P |
| 10 | 3.48 | 9.67 | 24.53 | 34.20 | 56.00 | -21.80 | QP | P |
| 11 | 13.56 | 9.88 | 20.79 | 30.67 | 50.00 | -19.33 | Average | P |
| 12 | 13.56 | 9.88 | 26.47 | 36.35 | 60.00 | -23.65 | QP | P |

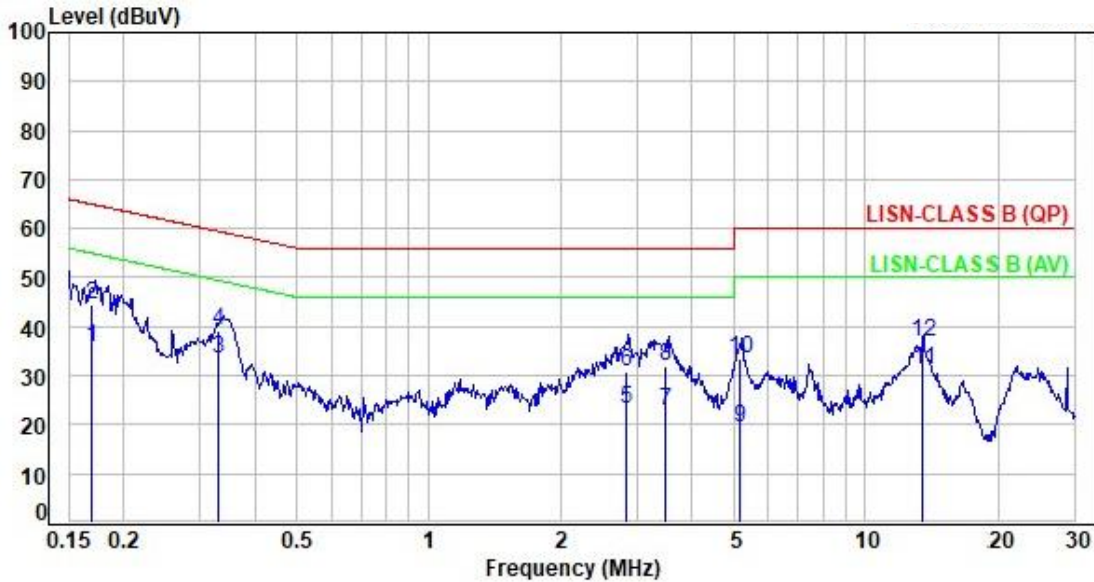
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



For Retest data

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------|
| Power | : DC 12V From Adapter (240V/60Hz) | Pol/Phase | : LINE |
| Test Mode | : Mode 6 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.17 | 9.65 | 26.22 | 35.87 | 55.03 | -19.16 | Average | P |
| 2 | 0.17 | 9.65 | 34.83 | 44.48 | 65.03 | -20.55 | QP | P |
| 3 | 0.33 | 9.65 | 23.64 | 33.29 | 49.42 | -16.13 | Average | P |
| 4 | 0.33 | 9.65 | 29.54 | 39.19 | 59.42 | -20.23 | QP | P |
| 5 | 2.84 | 9.70 | 13.52 | 23.22 | 46.00 | -22.78 | Average | P |
| 6 | 2.84 | 9.70 | 21.27 | 30.97 | 56.00 | -25.03 | QP | P |
| 7 | 3.49 | 9.70 | 13.02 | 22.72 | 46.00 | -23.28 | Average | P |
| 8 | 3.49 | 9.70 | 22.25 | 31.95 | 56.00 | -24.05 | QP | P |
| 9 | 5.15 | 9.74 | 9.57 | 19.31 | 50.00 | -30.69 | Average | P |
| 10 | 5.15 | 9.74 | 23.63 | 33.37 | 60.00 | -26.63 | QP | P |
| 11 | 13.56 | 9.88 | 21.35 | 31.23 | 50.00 | -18.77 | Average | P |
| 12 | 13.56 | 9.88 | 27.00 | 36.88 | 60.00 | -23.12 | QP | P |

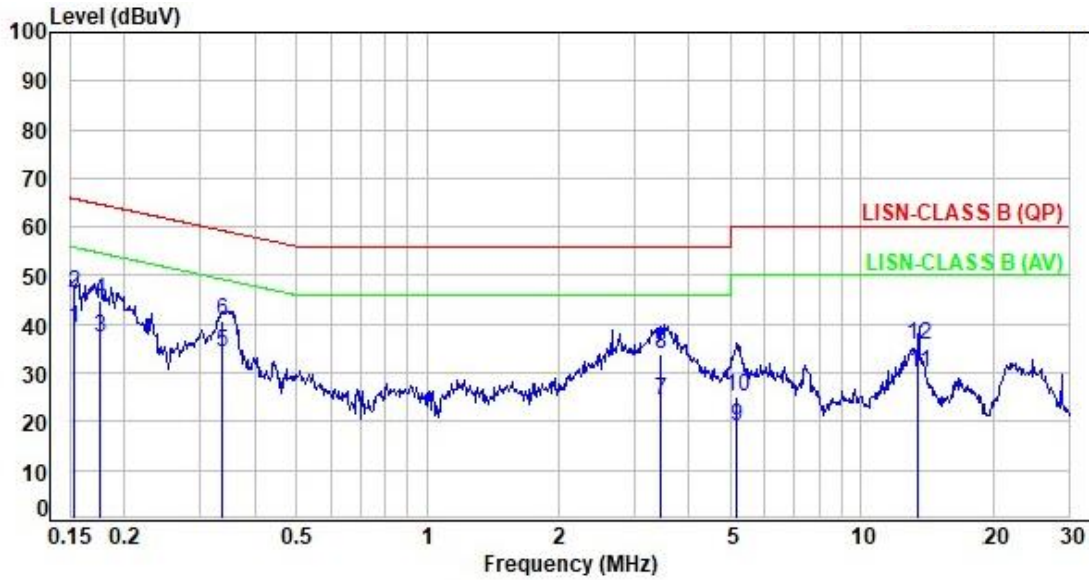
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



For Retest data

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|-----------|
| Power | : DC 12V From Adapter (240V/60Hz) | Pol/Phase | : NEUTRAL |
| Test Mode | : Mode 6 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.15 | 9.56 | 29.49 | 39.05 | 55.85 | -16.80 | Average | P |
| 2 | 0.15 | 9.56 | 36.97 | 46.53 | 65.85 | -19.32 | QP | P |
| 3 | 0.18 | 9.58 | 27.86 | 37.44 | 54.68 | -17.24 | Average | P |
| 4 | 0.18 | 9.58 | 35.36 | 44.94 | 64.68 | -19.74 | QP | P |
| 5 | 0.34 | 9.58 | 24.60 | 34.18 | 49.29 | -15.11 | Average | P |
| 6 | 0.34 | 9.58 | 31.19 | 40.77 | 59.29 | -18.52 | QP | P |
| 7 | 3.44 | 9.67 | 14.71 | 24.38 | 46.00 | -21.62 | Average | P |
| 8 | 3.44 | 9.67 | 24.13 | 33.80 | 56.00 | -22.20 | QP | P |
| 9 | 5.15 | 9.72 | 9.22 | 18.94 | 50.00 | -31.06 | Average | P |
| 10 | 5.15 | 9.72 | 15.33 | 25.05 | 60.00 | -34.95 | QP | P |
| 11 | 13.56 | 9.88 | 20.13 | 30.01 | 50.00 | -19.99 | Average | P |
| 12 | 13.56 | 9.88 | 25.78 | 35.66 | 60.00 | -24.34 | QP | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

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



6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

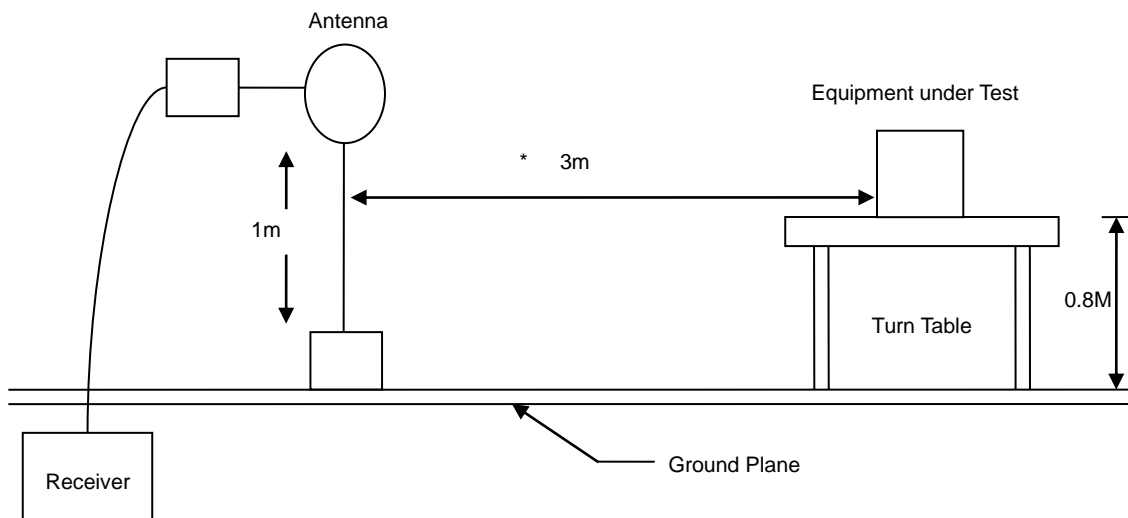
Note:

- 1.The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(Y-AXIS is the worst.)
- 2.Due to the test software function limit the operation band setting(200dBuV/m).
There's no corresponding limitation in the actual test item.

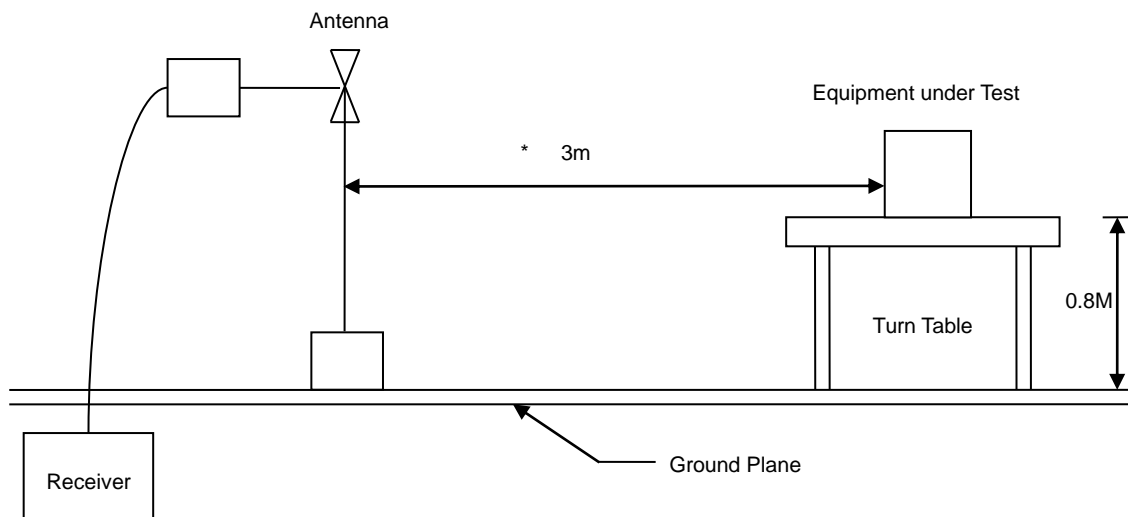


6.3 Typical Test Setup

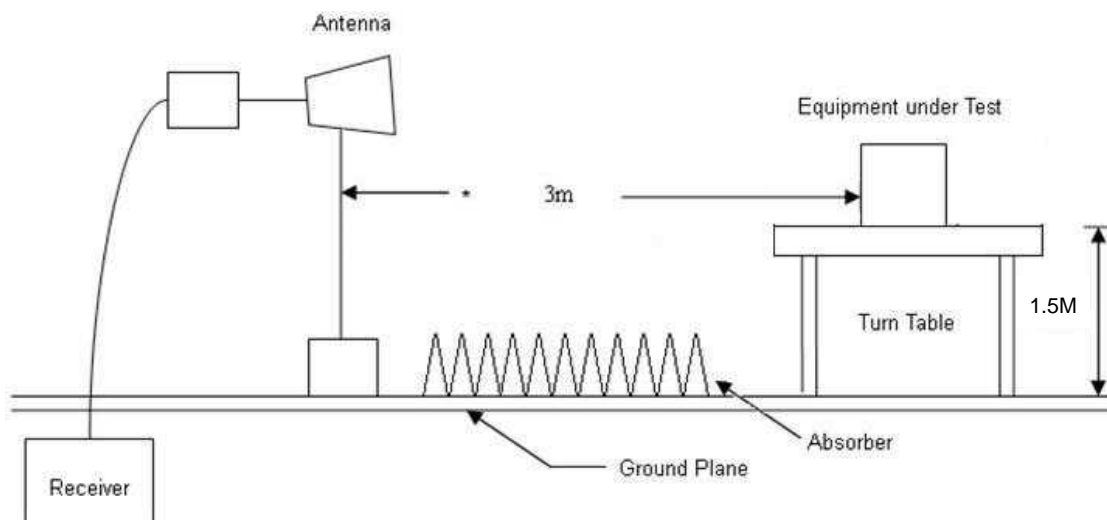
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





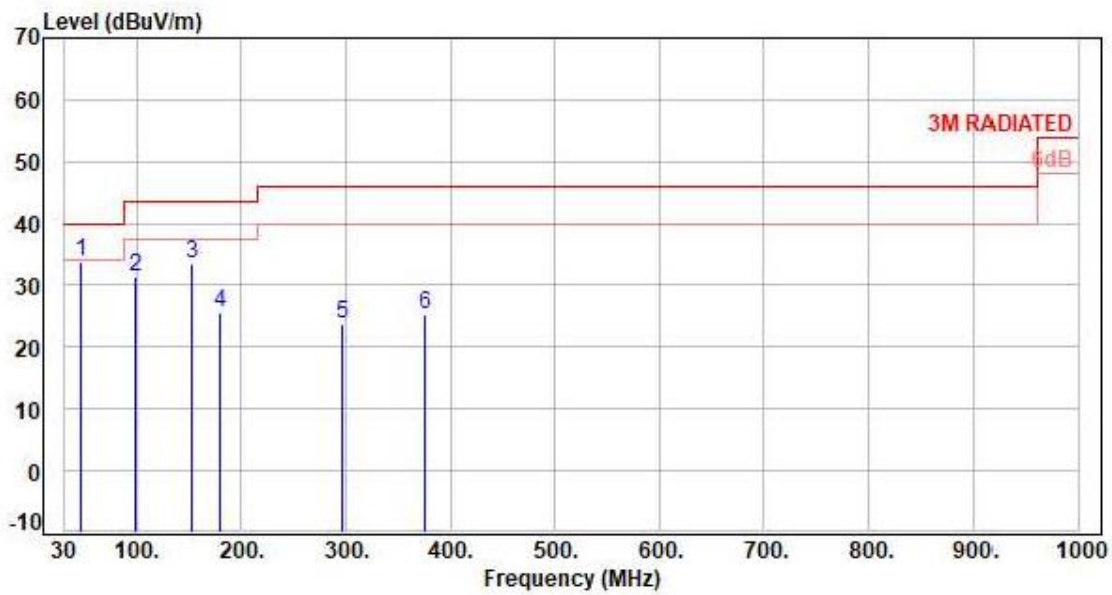
6.4 Test Result and Data (9KHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz ~ 1GHz)

For Retest data
Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (240V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 2 | | : |



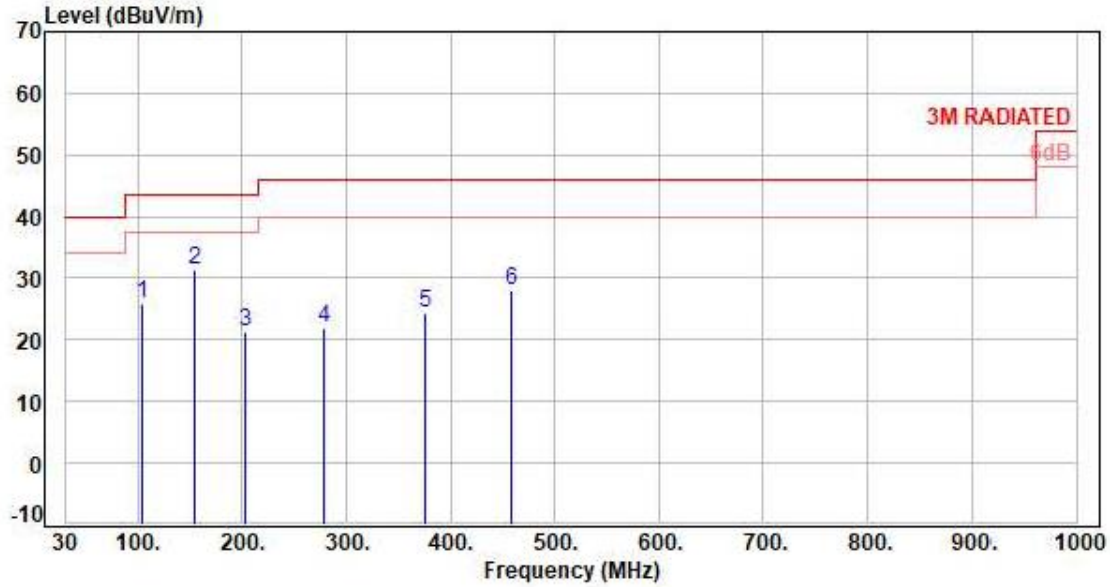
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 47.46 | -9.61 | 43.47 | 33.86 | 40.00 | -6.14 | Peak | 400 | 0 | P |
| 2 | 97.90 | -15.12 | 46.42 | 31.30 | 43.50 | -12.20 | Peak | 400 | 0 | P |
| 3 | 152.22 | -9.80 | 43.26 | 33.46 | 43.50 | -10.04 | Peak | 400 | 0 | P |
| 4 | 179.38 | -11.55 | 37.08 | 25.53 | 43.50 | -17.97 | Peak | 400 | 0 | P |
| 5 | 295.78 | -9.38 | 33.14 | 23.76 | 46.00 | -22.24 | Peak | 400 | 0 | P |
| 6 | 375.32 | -7.09 | 32.31 | 25.22 | 46.00 | -20.78 | Peak | 400 | 0 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For Retest data
Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (240V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 2 | | : |



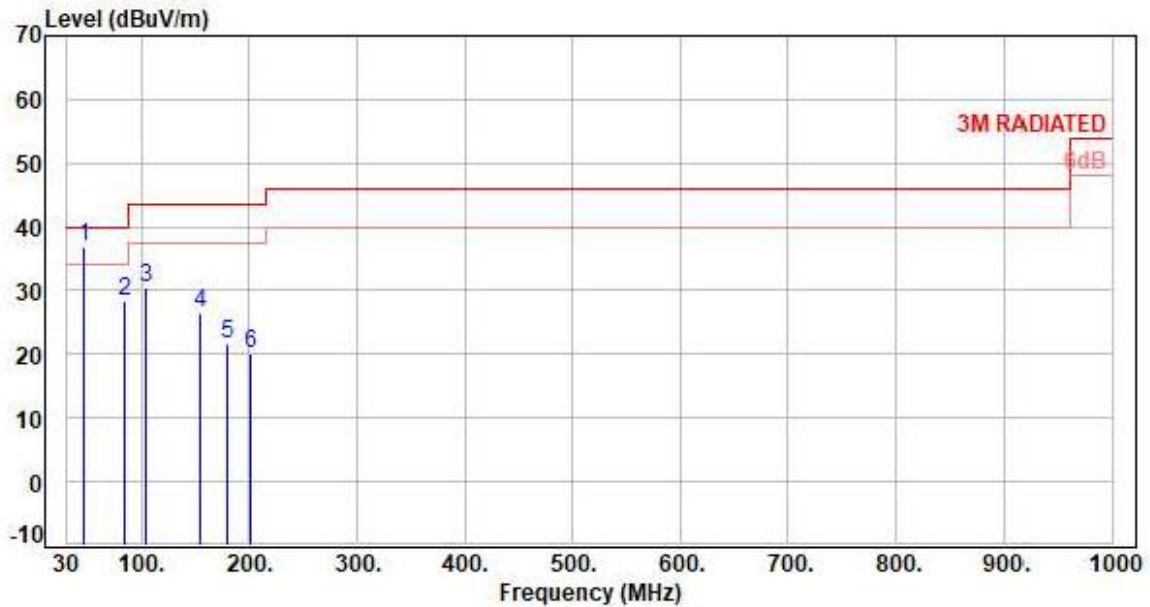
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 103.72 | -14.12 | 39.96 | 25.84 | 43.50 | -17.66 | Peak | 400 | 0 | P |
| 2 | 154.16 | -9.86 | 41.21 | 31.35 | 43.50 | -12.15 | Peak | 400 | 0 | P |
| 3 | 202.66 | -13.14 | 34.56 | 21.42 | 43.50 | -22.08 | Peak | 400 | 0 | P |
| 4 | 278.32 | -9.90 | 31.83 | 21.93 | 46.00 | -24.07 | Peak | 400 | 0 | P |
| 5 | 375.32 | -7.09 | 31.50 | 24.41 | 46.00 | -21.59 | Peak | 400 | 0 | P |
| 6 | 458.74 | -4.59 | 32.65 | 28.06 | 46.00 | -17.94 | Peak | 400 | 0 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For Retest data
BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (240V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6 | | : |



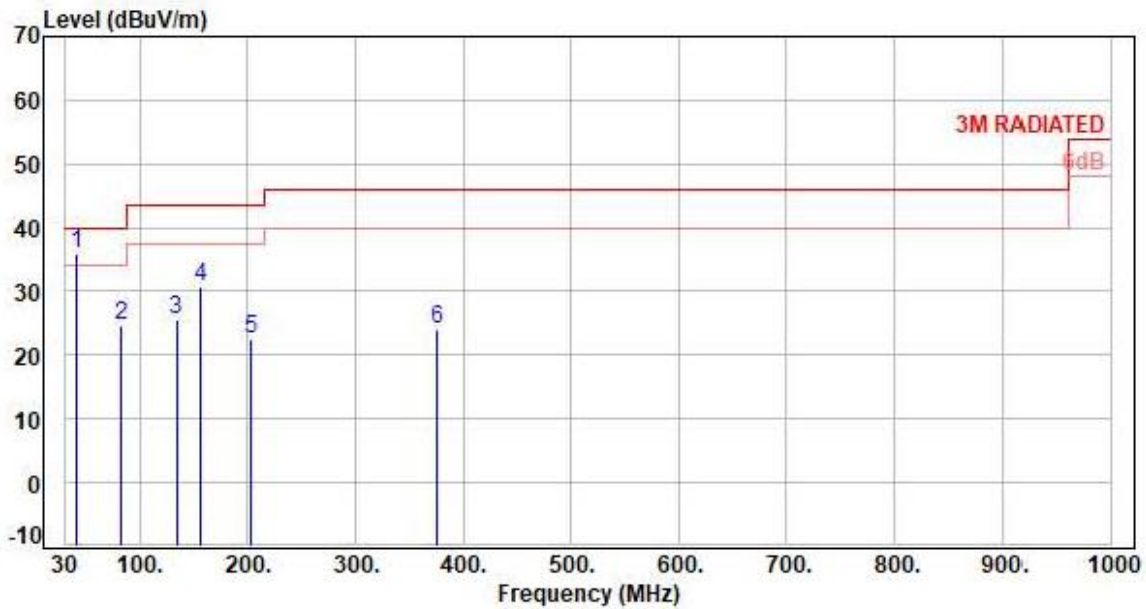
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 47.46 | -9.61 | 46.46 | 36.85 | 40.00 | -3.15 | Peak | 400 | 0 | P |
| 2 | 84.32 | -15.61 | 43.96 | 28.35 | 40.00 | -11.65 | Peak | 400 | 0 | P |
| 3 | 103.72 | -14.12 | 44.70 | 30.58 | 43.50 | -12.92 | Peak | 400 | 0 | P |
| 4 | 154.16 | -9.86 | 36.23 | 26.37 | 43.50 | -17.13 | Peak | 400 | 0 | P |
| 5 | 179.38 | -11.55 | 33.31 | 21.76 | 43.50 | -21.74 | Peak | 400 | 0 | P |
| 6 | 200.72 | -13.14 | 33.20 | 20.06 | 43.50 | -23.44 | Peak | 400 | 0 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For Retest data
BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (240V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 41.64 | -10.14 | 46.05 | 35.91 | 40.00 | -4.09 | Peak | 400 | 0 | P |
| 2 | 82.38 | -15.25 | 40.07 | 24.82 | 40.00 | -15.18 | Peak | 400 | 0 | P |
| 3 | 133.79 | -11.10 | 36.57 | 25.47 | 43.50 | -18.03 | Peak | 400 | 0 | P |
| 4 | 156.10 | -9.92 | 40.68 | 30.76 | 43.50 | -12.74 | Peak | 400 | 0 | P |
| 5 | 202.66 | -13.14 | 35.75 | 22.61 | 43.50 | -20.89 | Peak | 400 | 0 | P |
| 6 | 375.32 | -7.09 | 31.30 | 24.21 | 46.00 | -21.79 | Peak | 400 | 0 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

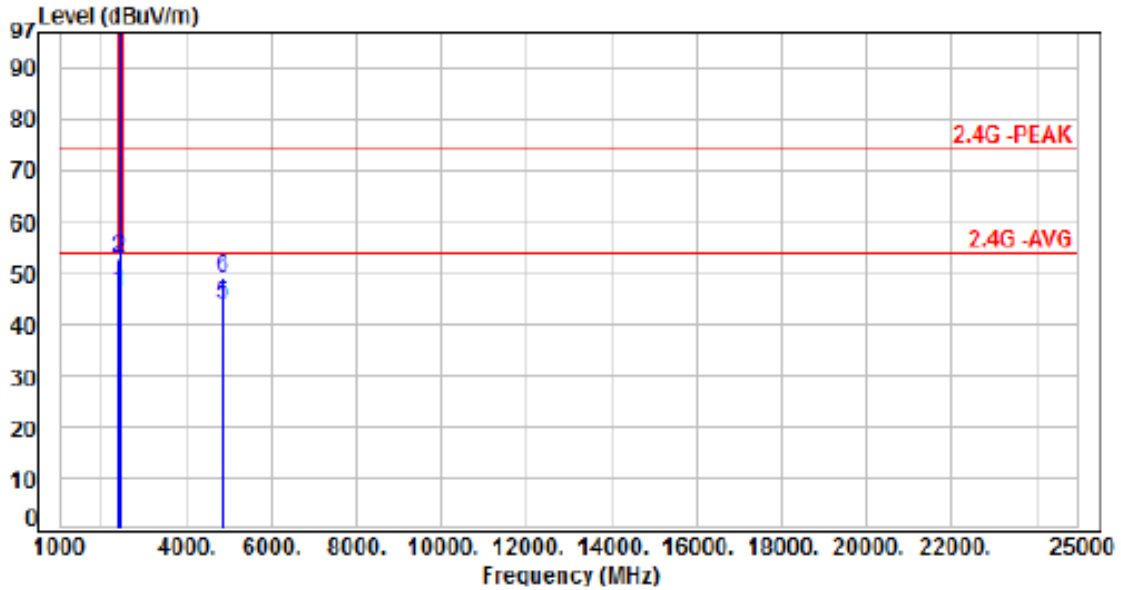


6.6 Test Result and Data (1GHz ~ 25GHz)

For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, CH01 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 49.94 | 46.06 | 54.00 | -7.94 | Average | 398 | 14 | P |
| 2 | 2390.00 | -3.88 | 56.76 | 52.88 | 74.00 | -21.12 | Peak | 398 | 14 | P |
| 3 | 2412.00 | -3.92 | 118.47 | 114.55 | 200.00 | -85.45 | Average | 398 | 14 | P |
| 4 | 2412.00 | -3.92 | 120.09 | 116.17 | 200.00 | -83.83 | Peak | 398 | 14 | P |
| 5 | 4824.00 | 4.48 | 39.43 | 43.91 | 54.00 | -10.09 | Average | 100 | 312 | P |
| 6 | 4824.00 | 4.48 | 44.73 | 49.21 | 74.00 | -24.79 | Peak | 100 | 312 | P |

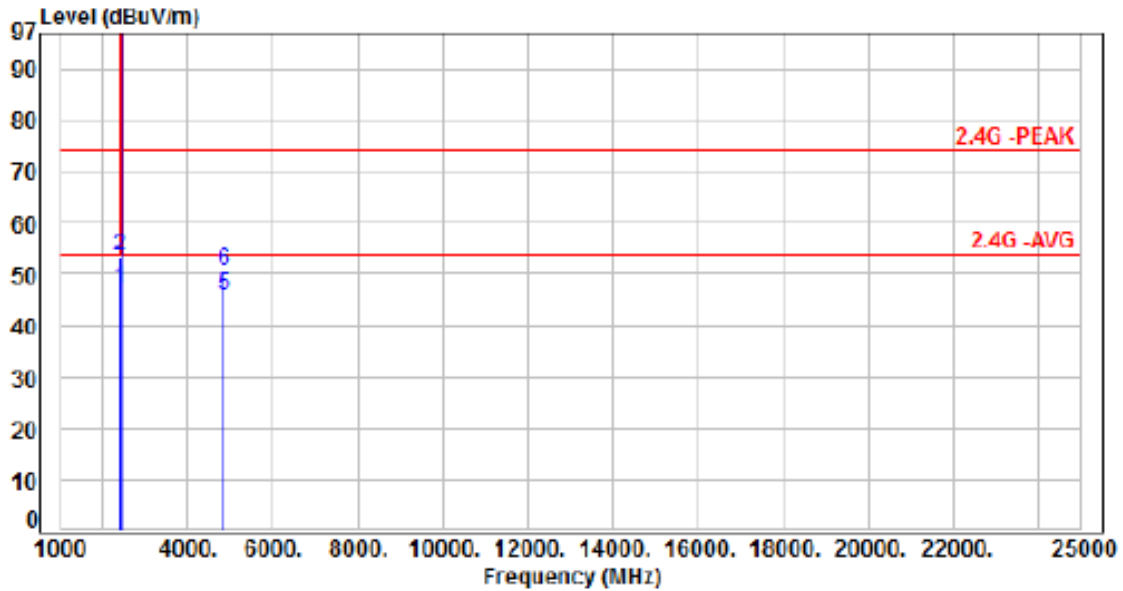
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 1, CH01 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 50.91 | 47.03 | 54.00 | -6.97 | Average | 100 | 305 | P |
| 2 | 2390.00 | -3.88 | 57.27 | 53.39 | 74.00 | -20.61 | Peak | 100 | 305 | P |
| 3 | 2412.00 | -3.92 | 115.81 | 111.89 | 200.00 | -88.11 | Average | 100 | 305 | P |
| 4 | 2412.00 | -3.92 | 117.05 | 113.13 | 200.00 | -86.87 | Peak | 100 | 305 | P |
| 5 | 4824.00 | 4.48 | 41.33 | 45.81 | 54.00 | -8.19 | Average | 100 | 330 | P |
| 6 | 4824.00 | 4.48 | 46.07 | 50.55 | 74.00 | -23.45 | Peak | 100 | 330 | P |

Note: Level=Reading+Factor

Margin=Level-Limit

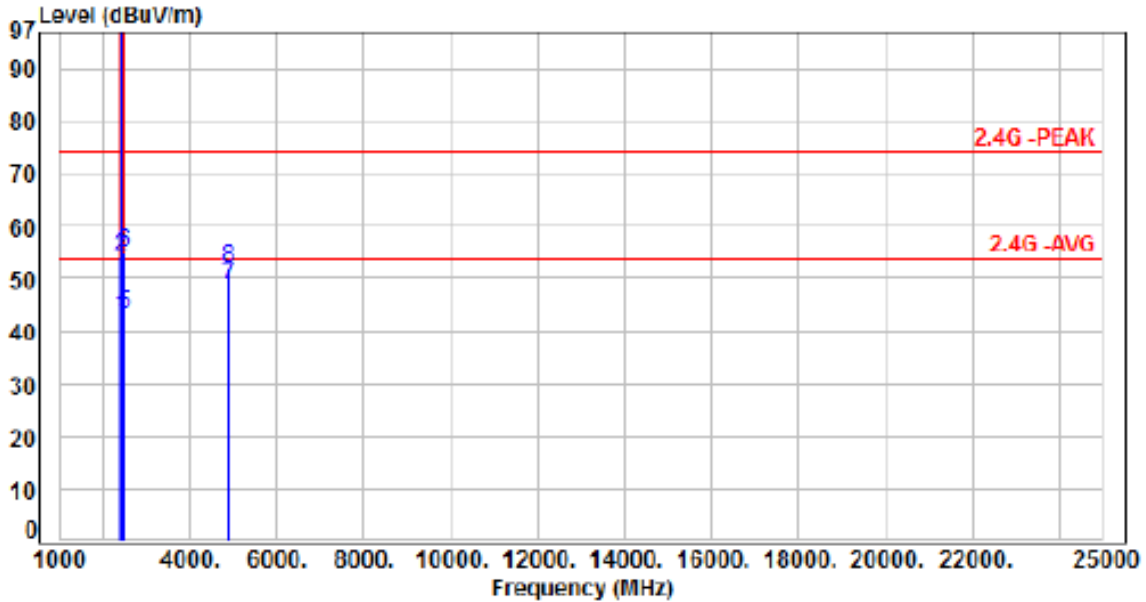
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 46.81 | 42.93 | 54.00 | -11.07 | Average | 389 | 18 | P |
| 2 | 2390.00 | -3.88 | 58.16 | 54.28 | 74.00 | -19.72 | Peak | 389 | 18 | P |
| 3 | 2437.00 | -3.94 | 117.31 | 113.37 | 200.00 | -86.63 | Average | 389 | 18 | P |
| 4 | 2437.00 | -3.94 | 119.23 | 115.29 | 200.00 | -84.71 | Peak | 389 | 18 | P |
| 5 | 2483.50 | -3.99 | 47.15 | 43.16 | 54.00 | -10.84 | Average | 389 | 18 | P |
| 6 | 2483.50 | -3.99 | 50.61 | 46.62 | 74.00 | -19.18 | Peak | 389 | 18 | P |
| 7 | 4874.00 | 4.73 | 43.89 | 48.62 | 54.00 | -5.38 | Average | 100 | 171 | P |
| 8 | 4874.00 | 4.73 | 47.24 | 51.97 | 74.00 | -22.03 | Peak | 100 | 171 | P |

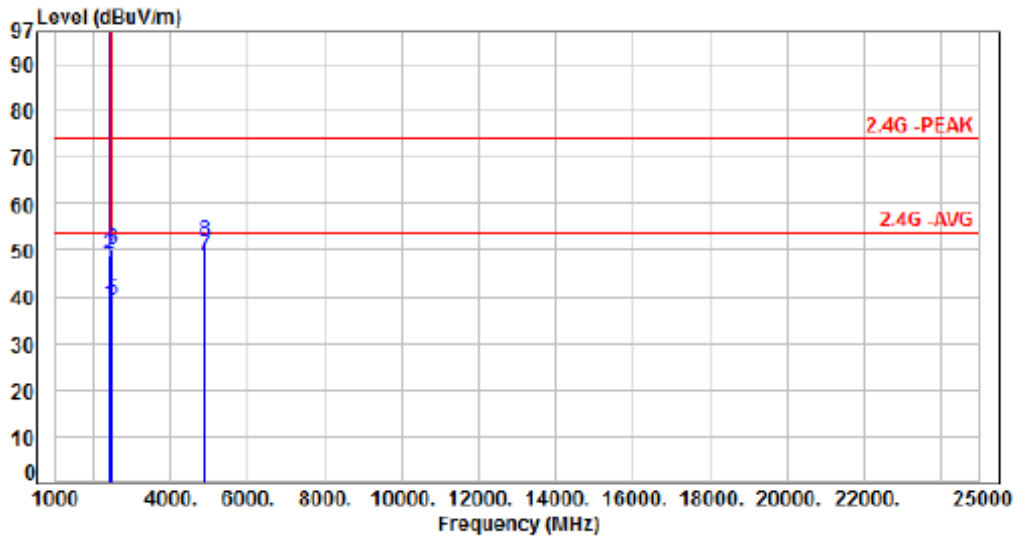
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 1, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 42.27 | 38.39 | 54.00 | -15.61 | Average | 100 | 91 | P |
| 2 | 2390.00 | -3.88 | 53.08 | 49.20 | 74.00 | -24.80 | Peak | 100 | 91 | P |
| 3 | 2437.00 | -3.94 | 115.03 | 111.09 | 200.00 | -88.91 | Average | 100 | 91 | P |
| 4 | 2437.00 | -3.94 | 116.31 | 112.37 | 200.00 | -87.63 | Peak | 100 | 91 | P |
| 5 | 2483.50 | -3.99 | 42.93 | 38.94 | 54.00 | -15.06 | Average | 100 | 91 | P |
| 6 | 2483.50 | -3.99 | 54.06 | 50.07 | 74.00 | -23.93 | Peak | 100 | 91 | P |
| 7 | 4874.00 | 4.73 | 43.99 | 48.72 | 54.00 | -5.28 | Average | 100 | 214 | P |
| 8 | 4874.00 | 4.73 | 47.17 | 51.90 | 74.00 | -22.10 | Peak | 100 | 214 | P |

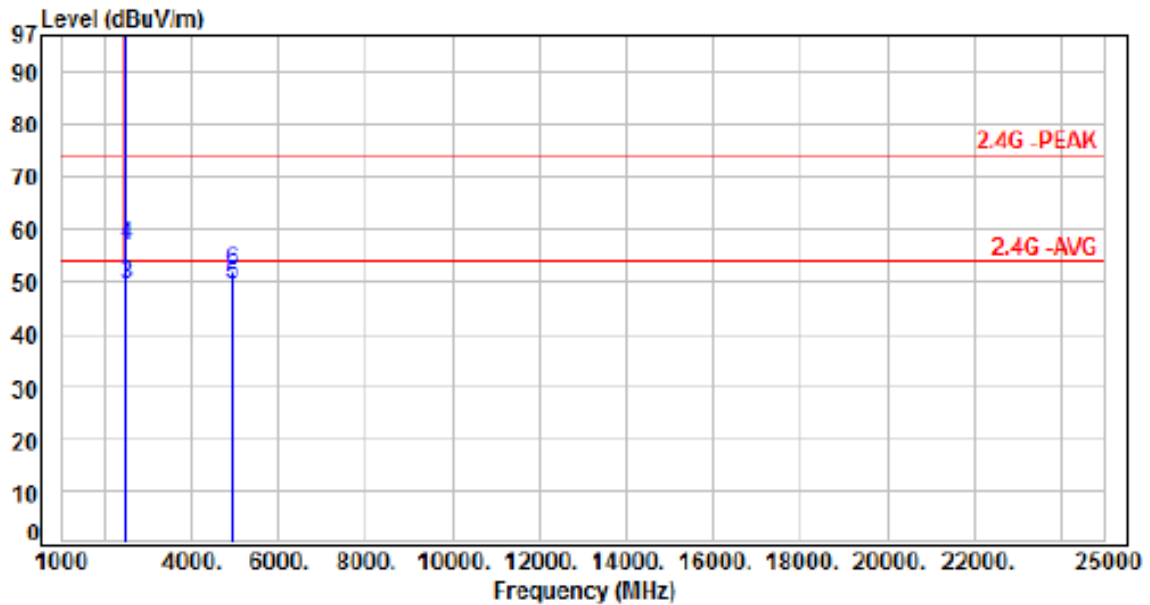
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, CH11 | | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2462.00 | -3.96 | 113.92 | 109.96 | 200.00 | -90.04 | Average | 380 | 13 | P |
| 2 | 2462.00 | -3.96 | 115.76 | 111.80 | 200.00 | -88.20 | Peak | 380 | 13 | P |
| 3 | 2483.50 | -3.99 | 53.24 | 49.25 | 54.00 | -4.75 | Average | 380 | 13 | P |
| 4 | 2483.50 | -3.99 | 60.96 | 56.97 | 74.00 | -17.03 | Peak | 380 | 13 | P |
| 5 | 4924.00 | 4.94 | 44.52 | 49.46 | 54.00 | -4.54 | Average | 100 | 173 | P |
| 6 | 4924.00 | 4.94 | 47.17 | 52.11 | 74.00 | -21.89 | Peak | 100 | 173 | P |

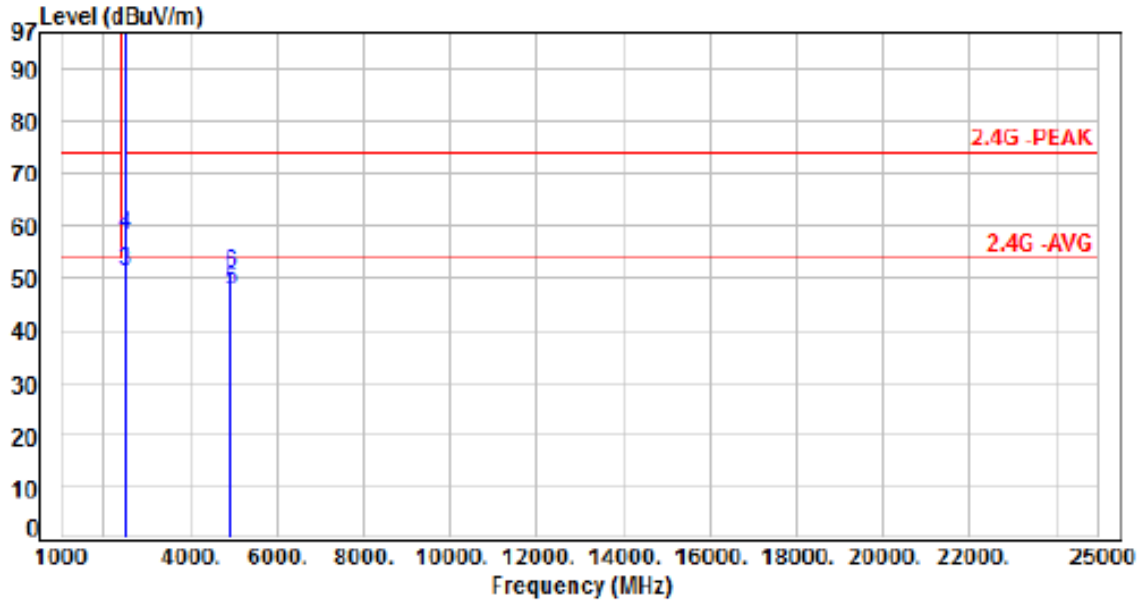
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 1, CH11 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2462.00 | -3.96 | 113.36 | 109.40 | 200.00 | -90.60 | Average | 100 | 76 | P |
| 2 | 2462.00 | -3.96 | 114.95 | 110.99 | 200.00 | -89.01 | Peak | 100 | 76 | P |
| 3 | 2483.50 | -3.99 | 55.33 | 51.34 | 54.00 | -2.66 | Average | 100 | 76 | P |
| 4 | 2483.50 | -3.99 | 62.21 | 58.22 | 74.00 | -15.78 | Peak | 100 | 76 | P |
| 5 | 4924.00 | 4.94 | 42.58 | 47.52 | 54.00 | -6.48 | Average | 100 | 205 | P |
| 6 | 4924.00 | 4.94 | 46.14 | 51.08 | 74.00 | -22.92 | Peak | 100 | 205 | P |

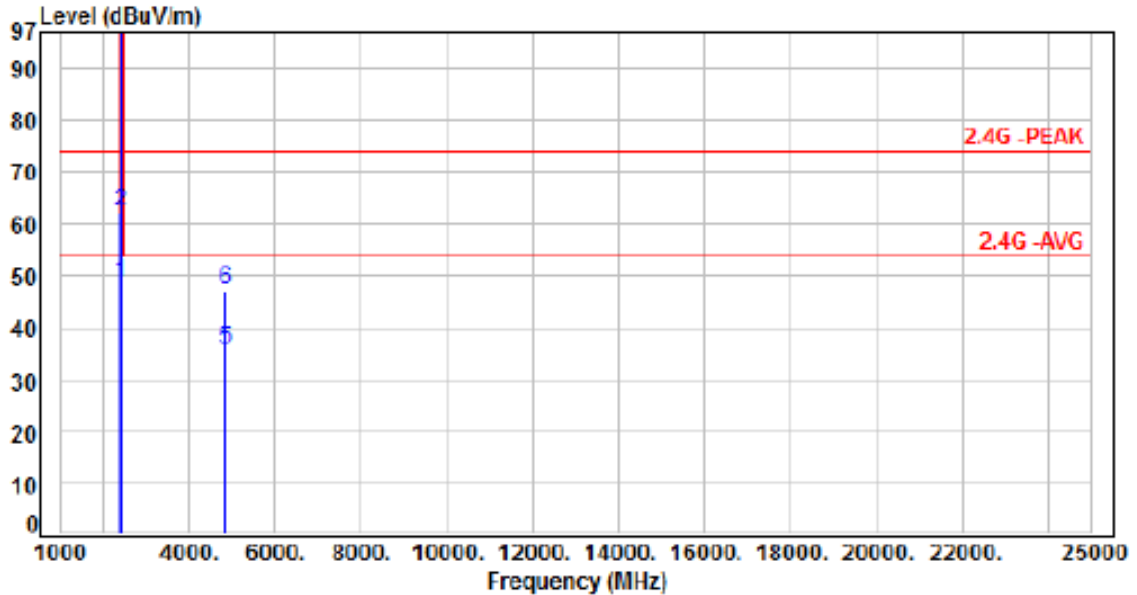
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 2, CH01 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 52.58 | 48.70 | 54.00 | -5.30 | Average | 393 | 16 | P |
| 2 | 2390.00 | -3.88 | 66.07 | 62.19 | 74.00 | -11.81 | Peak | 393 | 16 | P |
| 3 | 2412.00 | -3.92 | 112.35 | 108.43 | 200.00 | -91.57 | Average | 393 | 16 | P |
| 4 | 2412.00 | -3.92 | 120.71 | 116.79 | 200.00 | -83.21 | Peak | 393 | 16 | P |
| 5 | 4824.00 | 4.48 | 31.44 | 35.92 | 54.00 | -18.08 | Average | 100 | 202 | P |
| 6 | 4824.00 | 4.48 | 42.66 | 47.14 | 74.00 | -26.86 | Peak | 100 | 202 | P |

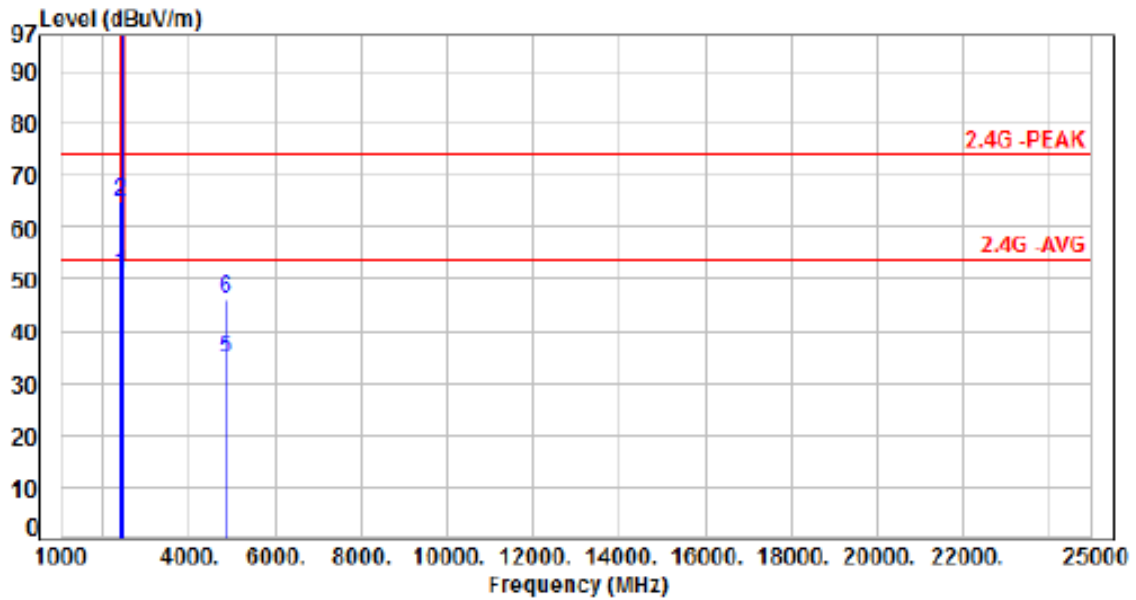
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 2, CH01 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 54.87 | 50.99 | 54.00 | -3.01 | Average | 116 | 301 | P |
| 2 | 2390.00 | -3.88 | 68.61 | 64.73 | 74.00 | -9.27 | Peak | 116 | 301 | P |
| 3 | 2412.00 | -3.92 | 108.93 | 105.01 | 200.00 | -94.99 | Average | 116 | 301 | P |
| 4 | 2412.00 | -3.92 | 118.33 | 114.41 | 200.00 | -85.59 | Peak | 116 | 301 | P |
| 5 | 4824.00 | 4.48 | 30.11 | 34.59 | 54.00 | -19.41 | Average | 100 | 324 | P |
| 6 | 4824.00 | 4.48 | 41.63 | 46.11 | 74.00 | -27.89 | Peak | 100 | 324 | P |

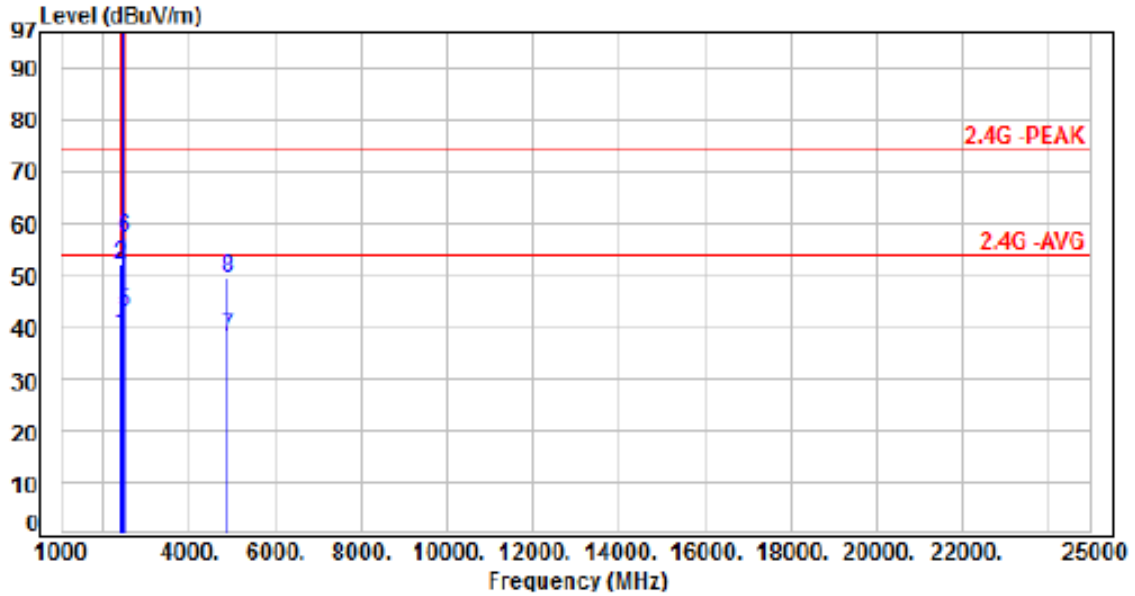
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 2, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 42.23 | 38.35 | 54.00 | -15.65 | Average | 389 | 24 | P |
| 2 | 2390.00 | -3.88 | 55.71 | 51.83 | 74.00 | -22.17 | Peak | 389 | 24 | P |
| 3 | 2437.00 | -3.94 | 113.21 | 109.27 | 200.00 | -90.73 | Average | 389 | 24 | P |
| 4 | 2437.00 | -3.94 | 122.28 | 118.34 | 200.00 | -81.66 | Peak | 389 | 24 | P |
| 5 | 2483.50 | -3.99 | 46.95 | 42.96 | 54.00 | -11.04 | Average | 389 | 24 | P |
| 6 | 2483.50 | -3.99 | 61.29 | 57.30 | 74.00 | -16.70 | Peak | 389 | 24 | P |
| 7 | 4874.00 | 4.73 | 33.15 | 37.88 | 54.00 | -16.12 | Average | 100 | 173 | P |
| 8 | 4874.00 | 4.73 | 44.61 | 49.34 | 74.00 | -24.66 | Peak | 100 | 173 | P |

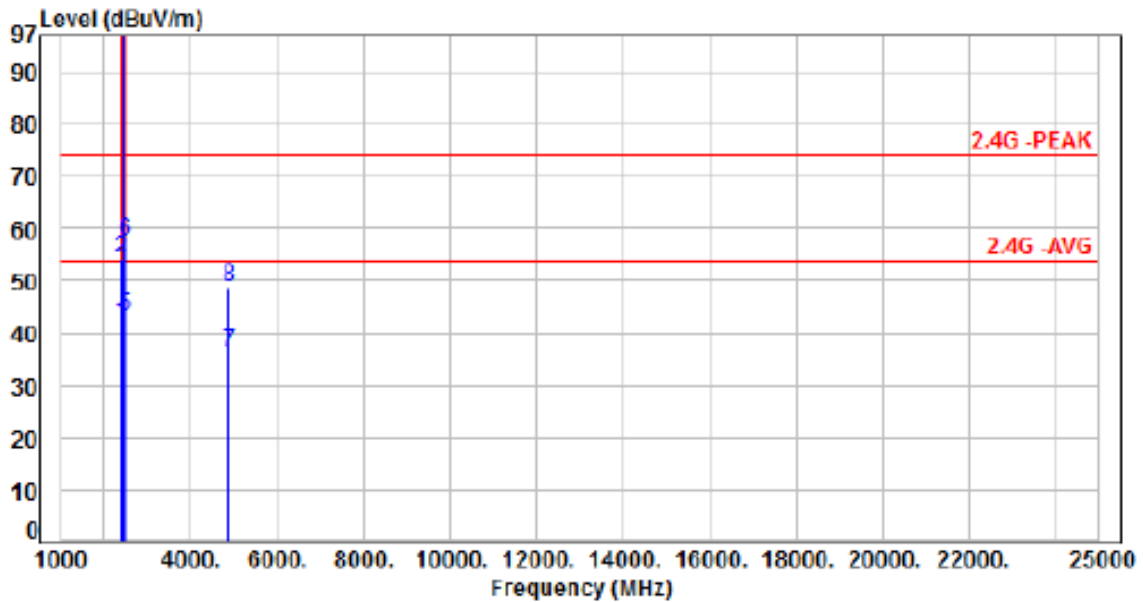
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 2, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 45.39 | 41.51 | 54.00 | -12.49 | Average | 100 | 93 | P |
| 2 | 2390.00 | -3.88 | 57.96 | 54.08 | 74.00 | -19.92 | Peak | 100 | 93 | P |
| 3 | 2437.00 | -3.94 | 110.58 | 106.64 | 200.00 | -93.36 | Average | 100 | 93 | P |
| 4 | 2437.00 | -3.94 | 119.61 | 115.67 | 200.00 | -84.33 | Peak | 100 | 93 | P |
| 5 | 2483.50 | -3.99 | 47.21 | 43.22 | 54.00 | -10.78 | Average | 100 | 93 | P |
| 6 | 2483.50 | -3.99 | 61.54 | 57.55 | 74.00 | -16.45 | Peak | 100 | 93 | P |
| 7 | 4874.00 | 4.73 | 31.58 | 36.31 | 54.00 | -17.69 | Average | 100 | 205 | P |
| 8 | 4874.00 | 4.73 | 44.12 | 48.85 | 74.00 | -25.15 | Peak | 100 | 205 | P |

Note: Level=Reading+Factor

Margin=Level-Limit

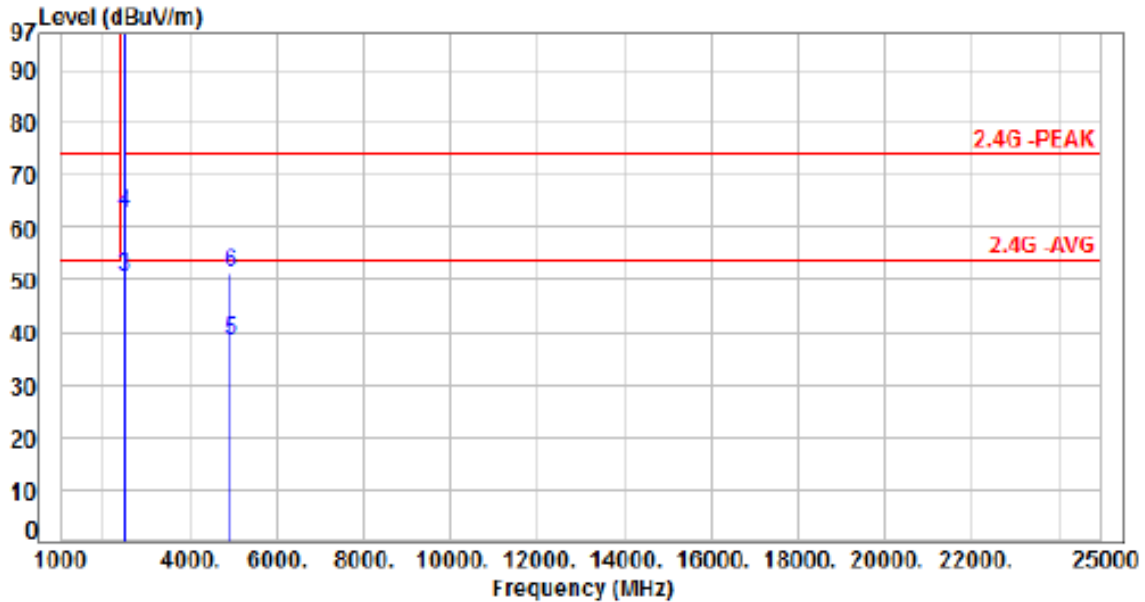
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 2, CH11 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2462.00 | -3.96 | 109.64 | 105.68 | 200.00 | -94.32 | Average | 379 | 23 | P |
| 2 | 2462.00 | -3.96 | 108.76 | 104.80 | 200.00 | -95.20 | Peak | 379 | 23 | P |
| 3 | 2483.50 | -3.99 | 54.33 | 50.34 | 54.00 | -3.66 | Average | 379 | 23 | P |
| 4 | 2483.50 | -3.99 | 66.67 | 62.68 | 74.00 | -11.32 | Peak | 379 | 23 | P |
| 5 | 4924.00 | 4.94 | 33.34 | 38.28 | 54.00 | -15.72 | Average | 100 | 172 | P |
| 6 | 4924.00 | 4.94 | 46.28 | 51.22 | 74.00 | -22.78 | Peak | 100 | 172 | P |

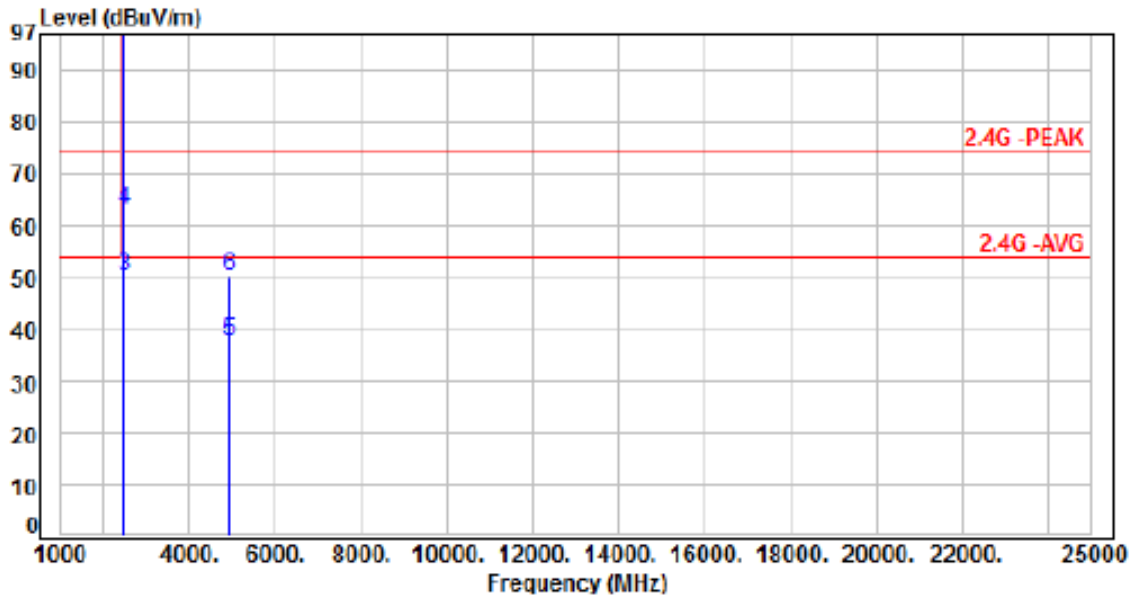
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 2, CH11 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2462.00 | -3.96 | 108.40 | 104.44 | 200.00 | -95.56 | Average | 100 | 73 | P |
| 2 | 2462.00 | -3.96 | 117.54 | 113.58 | 200.00 | -86.42 | Peak | 100 | 73 | P |
| 3 | 2483.50 | -3.99 | 54.08 | 50.09 | 54.00 | -3.91 | Average | 100 | 73 | P |
| 4 | 2483.50 | -3.99 | 67.07 | 63.08 | 74.00 | -10.92 | Peak | 100 | 73 | P |
| 5 | 4924.00 | 4.94 | 32.54 | 37.48 | 54.00 | -16.52 | Average | 176 | 169 | P |
| 6 | 4924.00 | 4.94 | 45.38 | 50.32 | 74.00 | -23.68 | Peak | 176 | 169 | P |

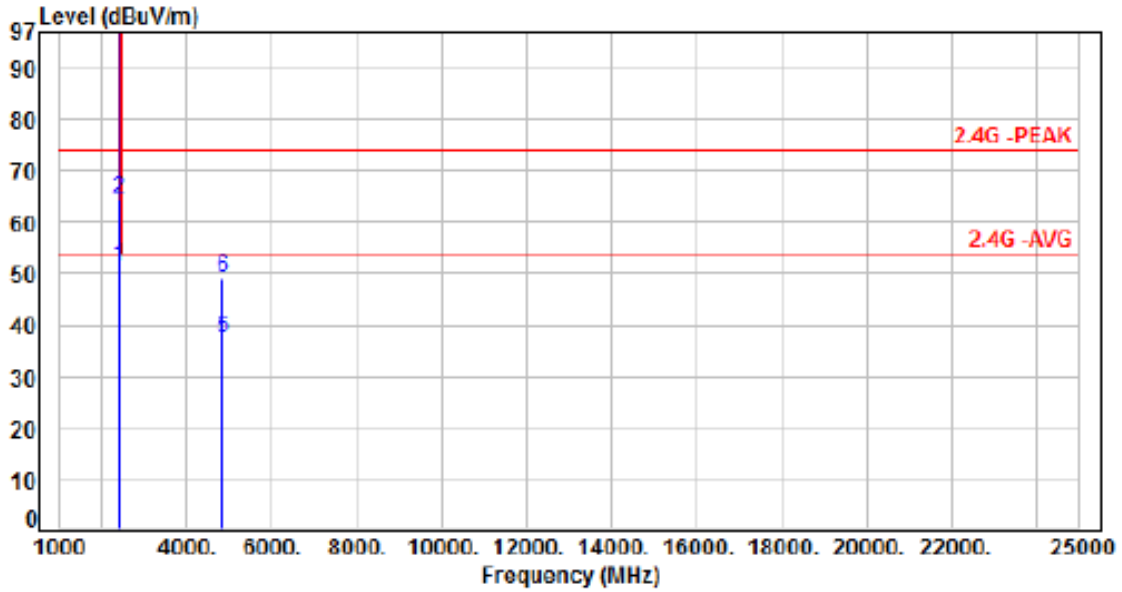
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 3, CH01 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 55.24 | 51.36 | 54.00 | -2.64 | Average | 389 | 19 | P |
| 2 | 2390.00 | -3.88 | 58.29 | 64.41 | 74.00 | -9.59 | Peak | 389 | 19 | P |
| 3 | 2412.00 | -3.92 | 112.33 | 108.41 | 200.00 | -91.59 | Average | 389 | 19 | P |
| 4 | 2412.00 | -3.92 | 124.95 | 121.03 | 200.00 | -78.97 | Peak | 389 | 19 | P |
| 5 | 4824.00 | 4.48 | 32.90 | 37.38 | 54.00 | -16.62 | Average | 100 | 163 | P |
| 6 | 4824.00 | 4.48 | 44.63 | 49.11 | 74.00 | -24.89 | Peak | 100 | 163 | P |

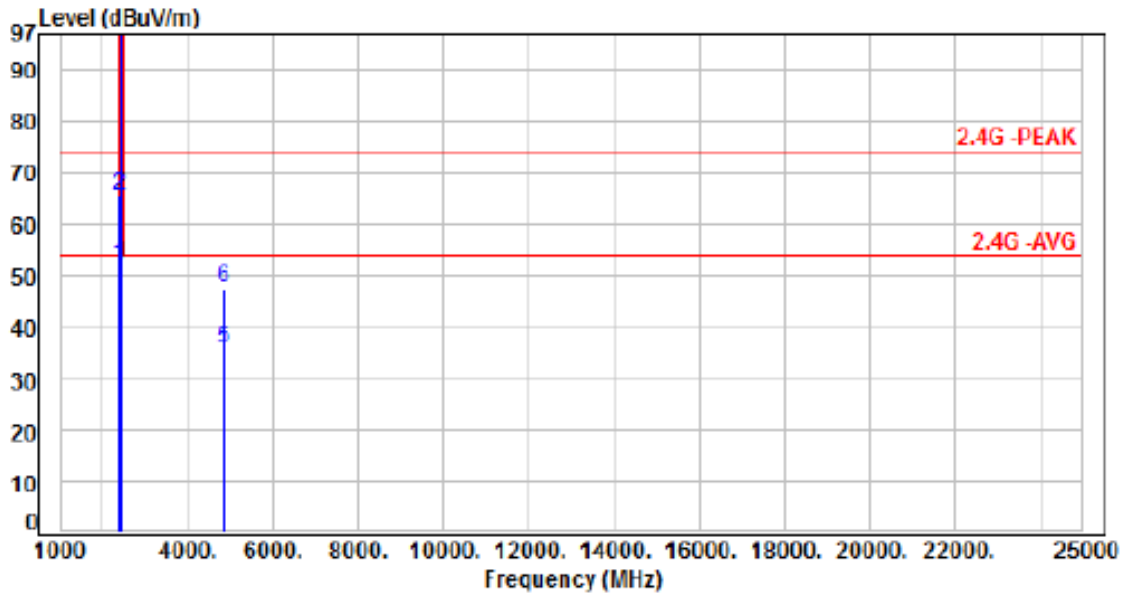
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 3, CH01 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 55.77 | 51.89 | 54.00 | -2.11 | Average | 100 | 312 | P |
| 2 | 2390.00 | -3.88 | 69.44 | 65.56 | 74.00 | -8.44 | Peak | 100 | 312 | P |
| 3 | 2412.00 | -3.92 | 108.77 | 104.85 | 200.00 | -95.15 | Average | 100 | 312 | P |
| 4 | 2412.00 | -3.92 | 121.74 | 117.82 | 200.00 | -82.18 | Peak | 100 | 312 | P |
| 5 | 4824.00 | 4.48 | 31.23 | 35.71 | 54.00 | -18.29 | Average | 100 | 326 | P |
| 6 | 4824.00 | 4.48 | 43.28 | 47.76 | 74.00 | -26.24 | Peak | 100 | 326 | P |

Note: Level=Reading+Factor

Margin=Level-Limit

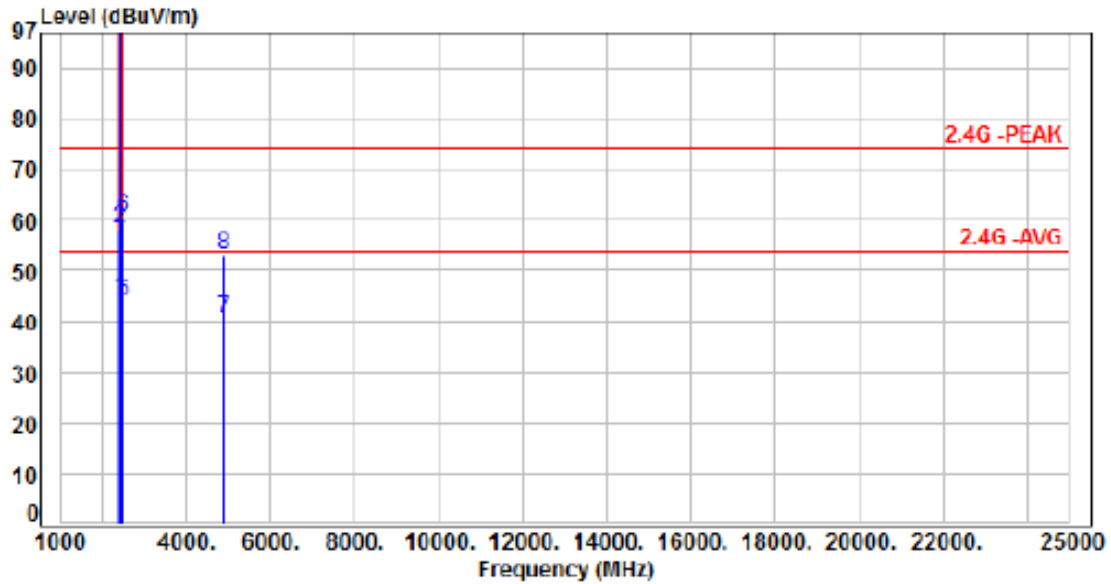
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 3, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 48.61 | 44.73 | 54.00 | -9.27 | Average | 339 | 20 | P |
| 2 | 2390.00 | -3.88 | 62.05 | 58.17 | 74.00 | -15.83 | Peak | 339 | 20 | P |
| 3 | 2437.00 | -3.94 | 114.07 | 110.13 | 200.00 | -89.87 | Average | 339 | 20 | P |
| 4 | 2437.00 | -3.94 | 126.01 | 122.07 | 200.00 | -77.93 | Peak | 339 | 20 | P |
| 5 | 2483.50 | -3.99 | 47.94 | 43.95 | 54.00 | -10.05 | Average | 339 | 20 | P |
| 6 | 2483.50 | -3.99 | 64.54 | 60.55 | 74.00 | -13.45 | Peak | 339 | 20 | P |
| 7 | 4874.00 | 4.73 | 35.87 | 40.60 | 54.00 | -13.40 | Average | 105 | 163 | P |
| 8 | 4874.00 | 4.73 | 48.29 | 53.02 | 74.00 | -20.98 | Peak | 105 | 163 | P |

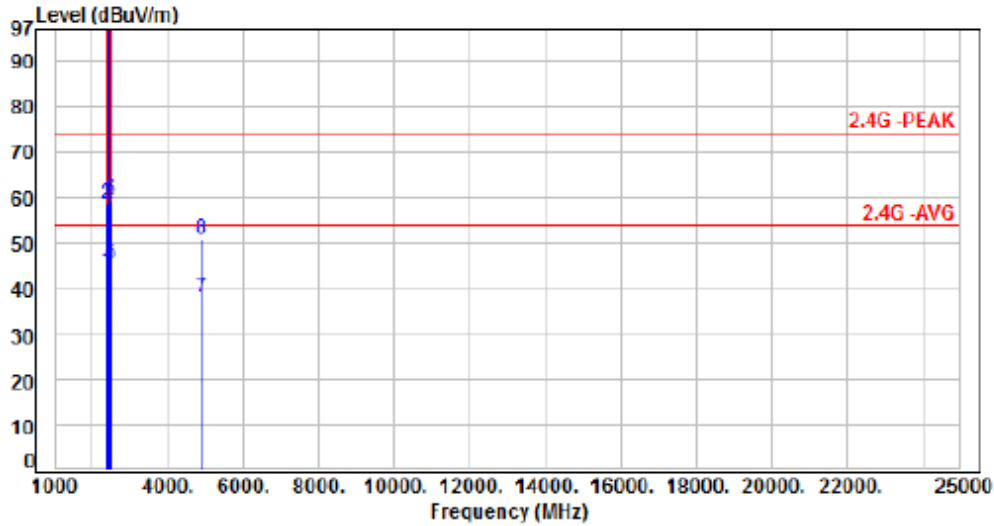
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 3, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 47.73 | 43.85 | 54.00 | -10.15 | Average | 100 | 308 | P |
| 2 | 2390.00 | -3.88 | 62.58 | 58.70 | 74.00 | -15.30 | Peak | 100 | 308 | P |
| 3 | 2437.00 | -3.94 | 110.98 | 107.04 | 200.00 | -92.96 | Average | 100 | 308 | P |
| 4 | 2437.00 | -3.94 | 123.41 | 119.47 | 200.00 | -80.53 | Peak | 100 | 308 | P |
| 5 | 2483.50 | -3.99 | 49.31 | 45.32 | 54.00 | -8.68 | Average | 100 | 308 | P |
| 6 | 2483.50 | -3.99 | 63.41 | 59.42 | 74.00 | -14.58 | Peak | 100 | 308 | P |
| 7 | 4874.00 | 4.73 | 33.31 | 38.04 | 54.00 | -15.96 | Average | 100 | 214 | P |
| 8 | 4874.00 | 4.73 | 46.16 | 50.89 | 74.00 | -23.11 | Peak | 100 | 214 | P |

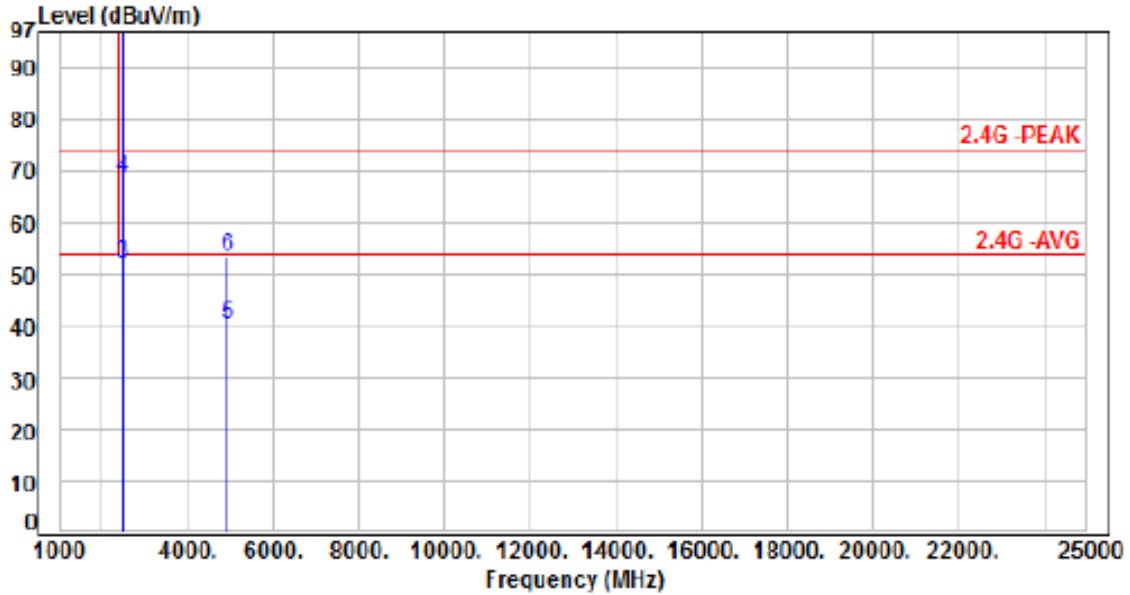
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 3, CH11 | | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2462.00 | -3.96 | 109.36 | 105.40 | 200.00 | -94.60 | Average | 333 | 25 | P |
| 2 | 2462.00 | -3.96 | 122.28 | 118.32 | 200.00 | -81.68 | Peak | 333 | 25 | P |
| 3 | 2483.50 | -3.99 | 56.04 | 52.05 | 54.00 | -1.95 | Average | 333 | 25 | P |
| 4 | 2483.50 | -3.99 | 72.66 | 68.67 | 74.00 | -5.33 | Peak | 333 | 25 | P |
| 5 | 4924.00 | 4.94 | 35.12 | 40.06 | 54.00 | -13.94 | Average | 100 | 164 | P |
| 6 | 4924.00 | 4.94 | 48.53 | 53.47 | 74.00 | -20.53 | Peak | 100 | 164 | P |

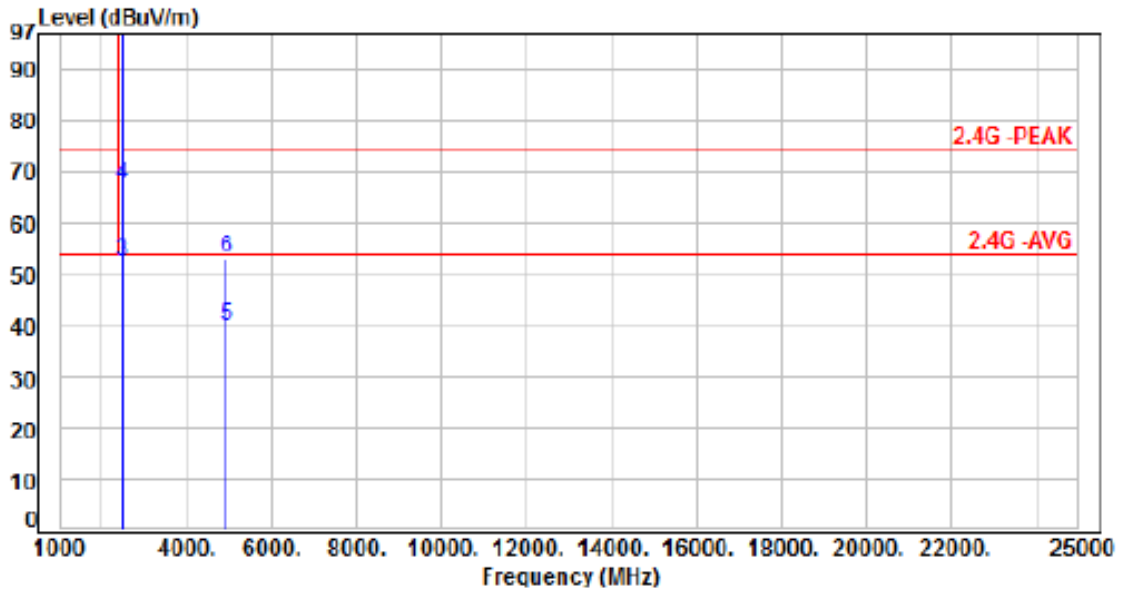
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 3, CH11 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2462.00 | -3.96 | 107.35 | 103.39 | 200.00 | -96.61 | Average | 100 | 68 | P |
| 2 | 2462.00 | -3.96 | 120.43 | 116.47 | 200.00 | -83.53 | Peak | 100 | 68 | P |
| 3 | 2483.50 | -3.99 | 56.29 | 52.30 | 54.00 | -1.70 | Average | 100 | 68 | P |
| 4 | 2483.50 | -3.99 | 71.58 | 67.59 | 74.00 | -6.41 | Peak | 100 | 68 | P |
| 5 | 4924.00 | 4.94 | 34.96 | 39.90 | 54.00 | -14.10 | Average | 111 | 212 | P |
| 6 | 4924.00 | 4.94 | 48.25 | 53.19 | 74.00 | -20.81 | Peak | 111 | 212 | P |

Note: Level=Reading+Factor

Margin=Level-Limit

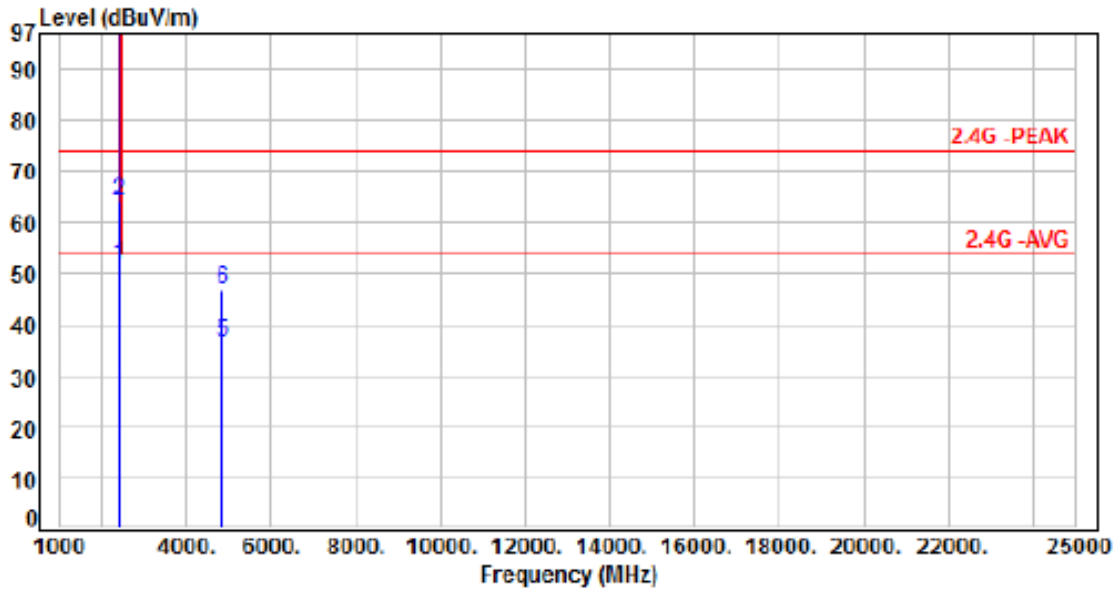
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 4, CH03 | | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 55.52 | 51.64 | 54.00 | -2.36 | Average | 387 | 20 | P |
| 2 | 2390.00 | -3.88 | 67.96 | 64.08 | 74.00 | -9.92 | Peak | 387 | 20 | P |
| 3 | 2422.00 | -3.93 | 108.48 | 104.55 | 200.00 | -95.45 | Average | 387 | 20 | P |
| 4 | 2422.00 | -3.93 | 119.88 | 115.95 | 200.00 | -84.05 | Peak | 387 | 20 | P |
| 5 | 4844.00 | 4.58 | 31.97 | 36.55 | 54.00 | -17.45 | Average | 100 | 186 | P |
| 6 | 4844.00 | 4.58 | 42.29 | 46.87 | 74.00 | -27.13 | Peak | 100 | 186 | P |

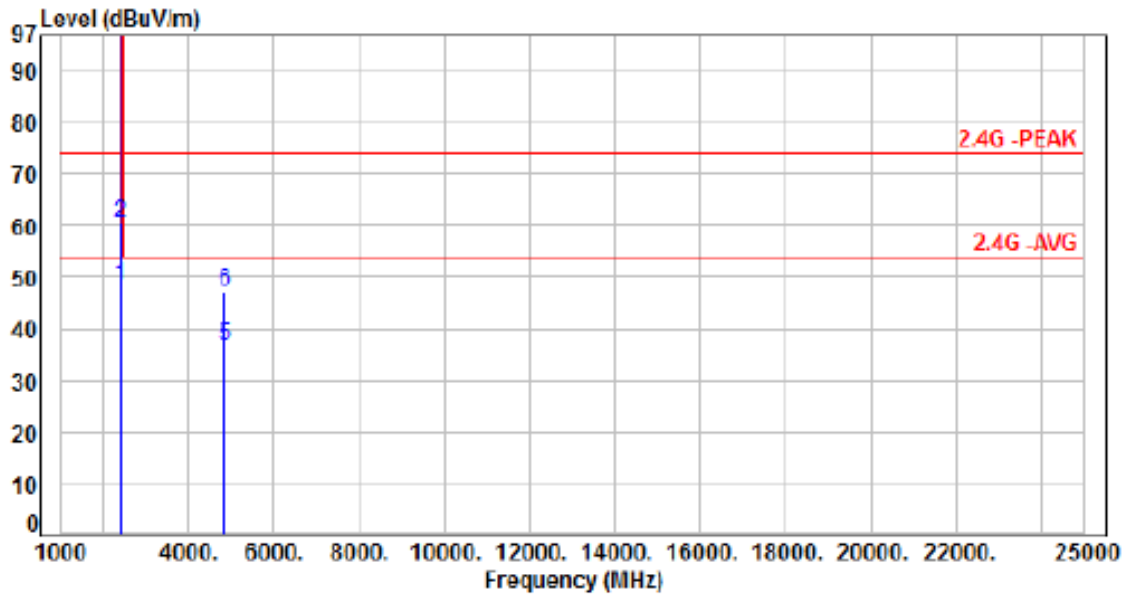
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 4, CH03 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 52.33 | 48.45 | 54.00 | -5.55 | Average | 100 | 62 | P |
| 2 | 2390.00 | -3.88 | 64.31 | 60.43 | 74.00 | -13.57 | Peak | 100 | 62 | P |
| 3 | 2422.00 | -3.93 | 105.19 | 101.26 | 200.00 | -98.74 | Average | 100 | 62 | P |
| 4 | 2422.00 | -3.93 | 117.44 | 113.51 | 200.00 | -86.49 | Peak | 100 | 62 | P |
| 5 | 4844.00 | 4.58 | 31.98 | 36.56 | 54.00 | -17.44 | Average | 303 | 145 | P |
| 6 | 4844.00 | 4.58 | 42.71 | 47.29 | 74.00 | -26.71 | Peak | 303 | 145 | P |

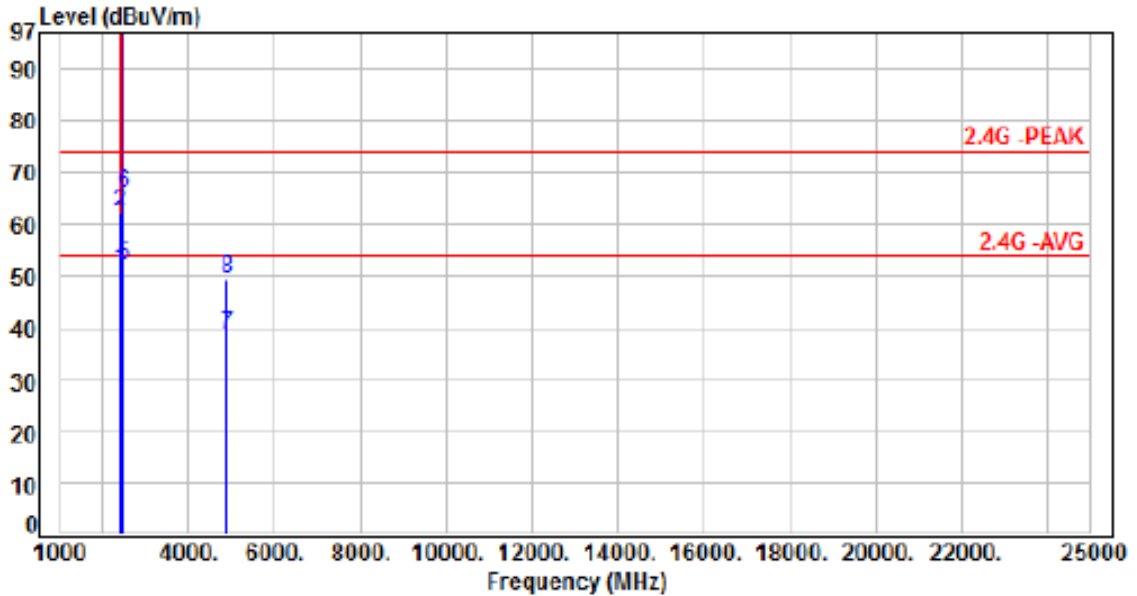
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 4, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 55.33 | 51.45 | 54.00 | -2.55 | Average | 377 | 22 | P |
| 2 | 2390.00 | -3.88 | 66.06 | 62.18 | 74.00 | -11.82 | Peak | 377 | 22 | P |
| 3 | 2437.00 | -3.94 | 109.91 | 105.97 | 200.00 | -94.03 | Average | 377 | 22 | P |
| 4 | 2437.00 | -3.94 | 121.83 | 117.89 | 200.00 | -82.11 | Peak | 377 | 22 | P |
| 5 | 2483.50 | -3.99 | 55.84 | 51.85 | 54.00 | -2.15 | Average | 377 | 22 | P |
| 6 | 2483.50 | -3.99 | 70.15 | 66.16 | 74.00 | -7.84 | Peak | 377 | 22 | P |
| 7 | 4874.00 | 4.73 | 34.16 | 38.89 | 54.00 | -15.11 | Average | 100 | 163 | P |
| 8 | 4874.00 | 4.73 | 44.84 | 49.57 | 74.00 | -24.43 | Peak | 100 | 163 | P |

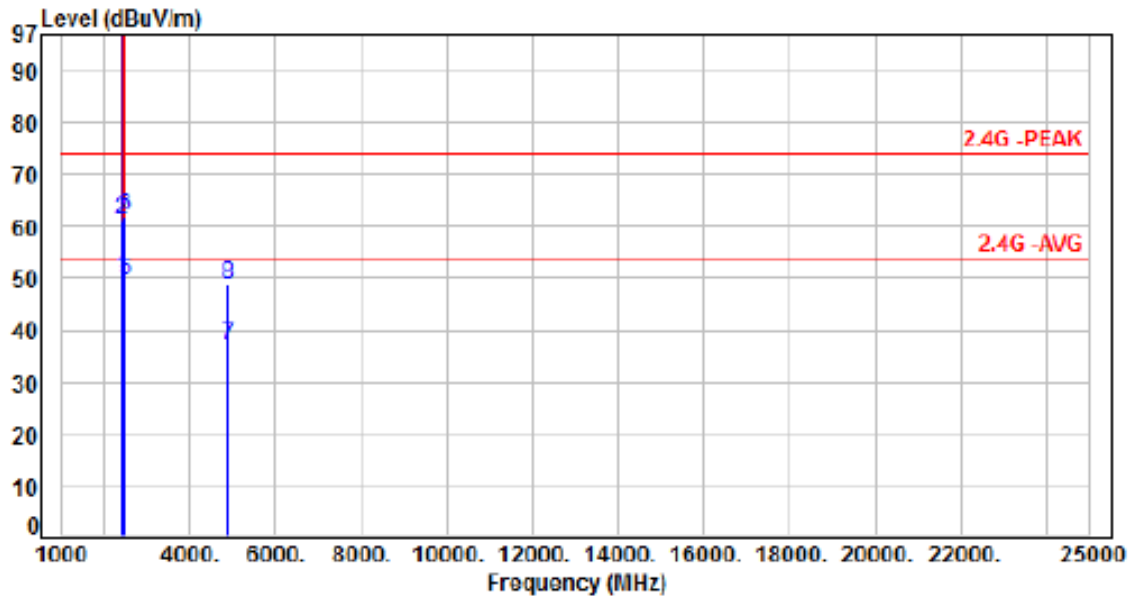
Note: Level-Reading+Factor
 Margin-Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 4, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 54.08 | 50.20 | 54.00 | -3.80 | Average | 100 | 91 | P |
| 2 | 2390.00 | -3.88 | 65.26 | 61.38 | 74.00 | -12.62 | Peak | 100 | 91 | P |
| 3 | 2437.00 | -3.94 | 106.18 | 102.24 | 200.00 | -97.76 | Average | 100 | 91 | P |
| 4 | 2437.00 | -3.94 | 117.89 | 113.95 | 200.00 | -86.05 | Peak | 100 | 91 | P |
| 5 | 2483.50 | -3.99 | 53.53 | 49.54 | 54.00 | -4.46 | Average | 100 | 91 | P |
| 6 | 2483.50 | -3.99 | 66.02 | 62.03 | 74.00 | -11.97 | Peak | 100 | 91 | P |
| 7 | 4874.00 | 4.73 | 32.12 | 36.85 | 54.00 | -17.15 | Average | 120 | 210 | P |
| 8 | 4874.00 | 4.73 | 44.02 | 48.75 | 74.00 | -25.25 | Peak | 120 | 210 | P |

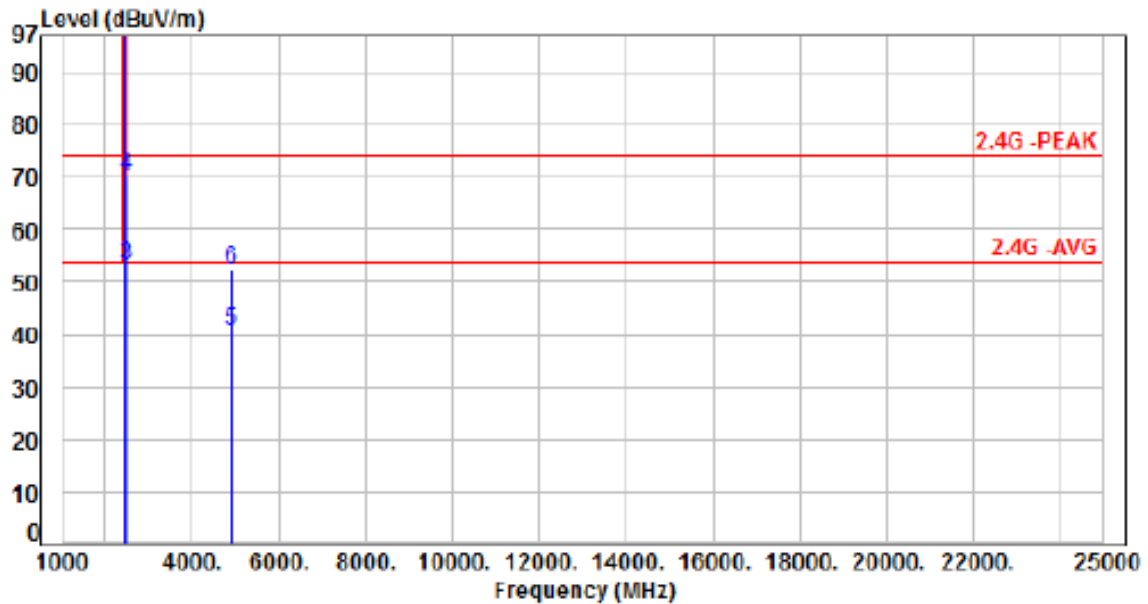
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 4, CH09 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2452.00 | -3.95 | 106.42 | 102.47 | 200.00 | -97.53 | Average | 337 | 22 | P |
| 2 | 2452.00 | -3.95 | 118.33 | 114.38 | 200.00 | -85.62 | Peak | 337 | 22 | P |
| 3 | 2483.50 | -3.99 | 56.97 | 52.98 | 54.00 | -1.02 | Average | 337 | 22 | P |
| 4 | 2483.50 | -3.99 | 74.13 | 70.14 | 74.00 | -3.86 | Peak | 337 | 22 | P |
| 5 | 4904.00 | 4.88 | 35.66 | 40.54 | 54.00 | -13.46 | Average | 104 | 165 | P |
| 6 | 4904.00 | 4.88 | 47.33 | 52.21 | 74.00 | -21.79 | Peak | 104 | 165 | P |

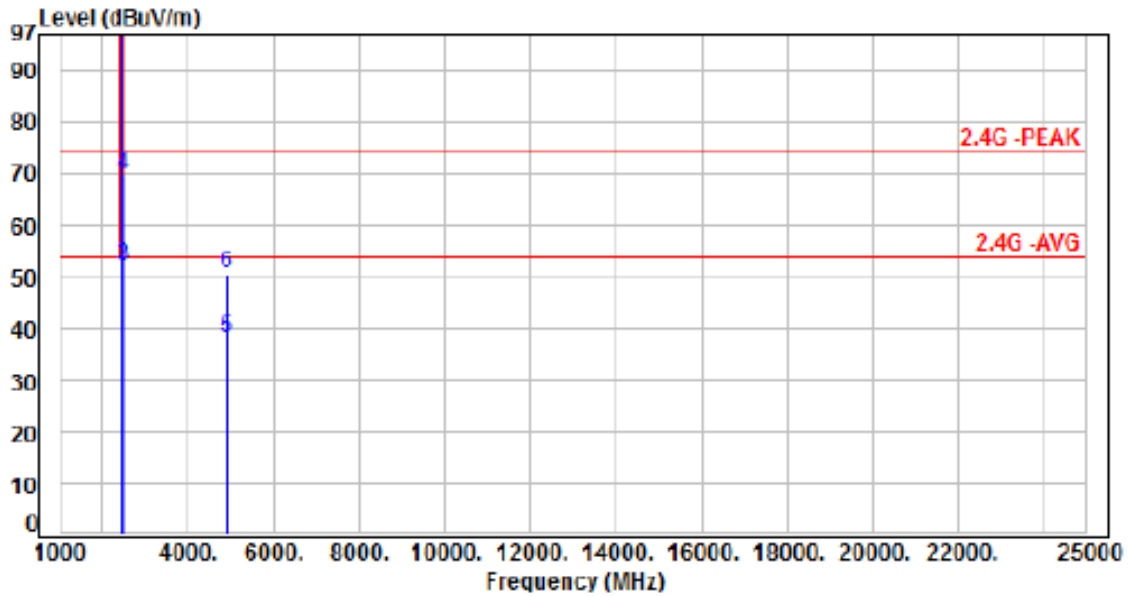
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

Non BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 4, CH09 | | : |



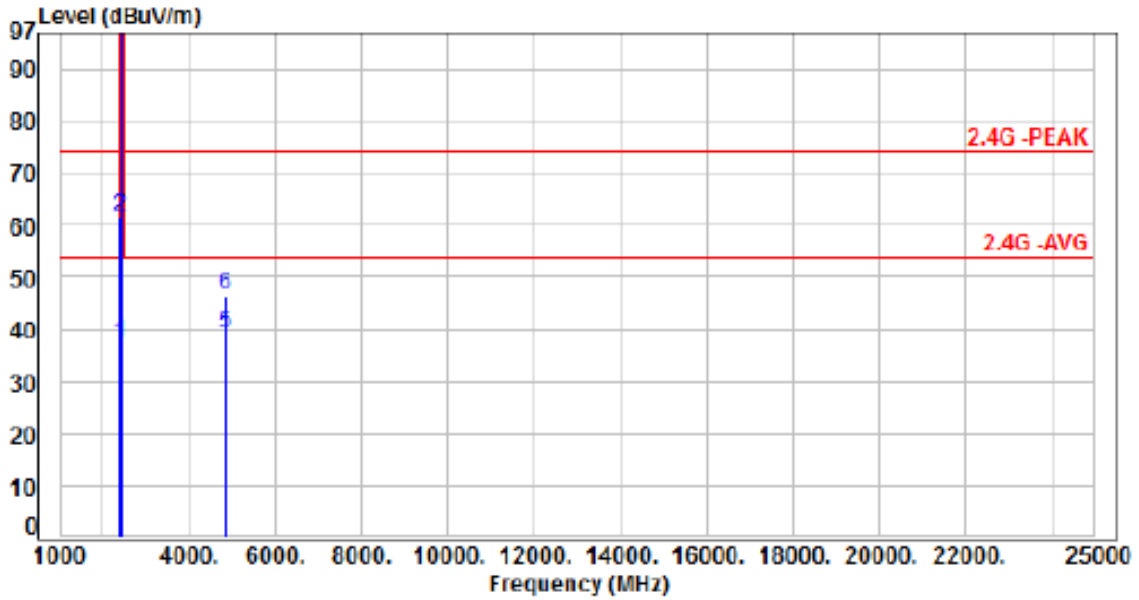
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2452.00 | -3.95 | 104.07 | 100.12 | 200.00 | -99.88 | Average | 100 | 60 | P |
| 2 | 2452.00 | -3.95 | 116.13 | 112.18 | 200.00 | -87.82 | Peak | 100 | 60 | P |
| 3 | 2483.50 | -3.99 | 56.17 | 52.18 | 54.00 | -1.82 | Average | 100 | 60 | P |
| 4 | 2483.50 | -3.99 | 73.61 | 69.62 | 74.00 | -4.38 | Peak | 100 | 60 | P |
| 5 | 4904.00 | 4.88 | 33.03 | 37.91 | 54.00 | -16.09 | Average | 100 | 211 | P |
| 6 | 4904.00 | 4.88 | 45.67 | 50.55 | 74.00 | -23.45 | Peak | 100 | 211 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01
BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, CH01 | | : |



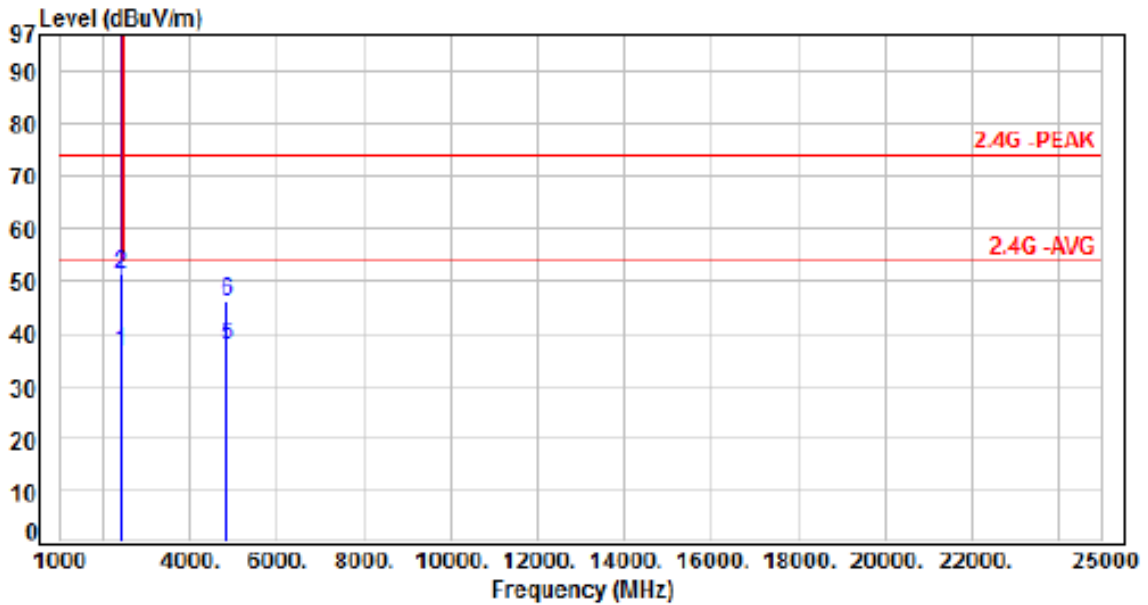
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azinuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 41.18 | 37.30 | 54.00 | -16.70 | Average | 400 | 34 | P |
| 2 | 2390.00 | -3.88 | 65.64 | 61.76 | 74.00 | -12.24 | Peak | 400 | 34 | P |
| 3 | 2412.00 | -3.92 | 106.07 | 102.15 | 200.00 | -97.85 | Average | 400 | 34 | P |
| 4 | 2412.00 | -3.92 | 111.74 | 107.82 | 200.00 | -92.18 | Peak | 400 | 34 | P |
| 5 | 4824.00 | 4.48 | 34.56 | 39.04 | 54.00 | -14.96 | Average | 100 | 204 | P |
| 6 | 4824.00 | 4.48 | 41.98 | 46.46 | 74.00 | -27.54 | Peak | 100 | 204 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01
BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, CH01 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 40.44 | 36.56 | 54.00 | -17.44 | Average | 341 | 280 | P |
| 2 | 2390.00 | -3.88 | 55.19 | 51.31 | 74.00 | -22.69 | Peak | 341 | 280 | P |
| 3 | 2412.00 | -3.92 | 104.35 | 100.43 | 200.00 | -99.57 | Average | 341 | 280 | P |
| 4 | 2412.00 | -3.92 | 110.64 | 106.72 | 200.00 | -93.28 | Peak | 341 | 280 | P |
| 5 | 4824.00 | 4.48 | 33.26 | 37.74 | 54.00 | -16.26 | Average | 100 | 328 | P |
| 6 | 4824.00 | 4.48 | 41.80 | 46.28 | 74.00 | -27.72 | Peak | 100 | 328 | P |

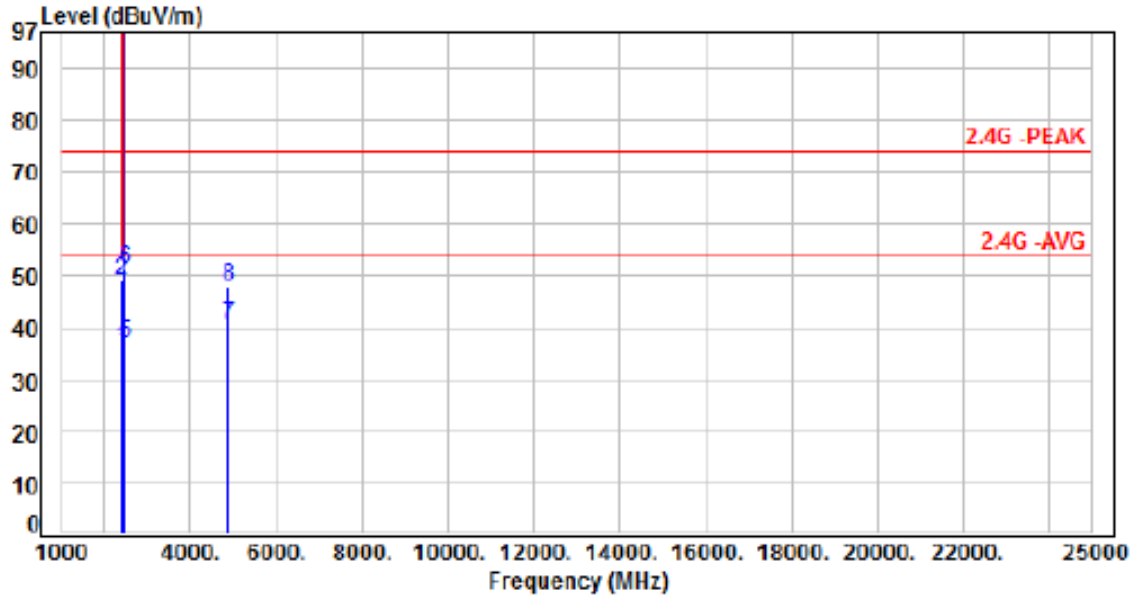
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 39.95 | 36.08 | 54.00 | -17.92 | Average | 348 | 21 | P |
| 2 | 2390.00 | -3.88 | 52.91 | 49.03 | 74.00 | -24.97 | Peak | 348 | 21 | P |
| 3 | 2437.00 | -3.94 | 106.63 | 102.69 | 200.00 | -97.31 | Average | 348 | 21 | P |
| 4 | 2437.00 | -3.94 | 114.13 | 110.19 | 200.00 | -89.81 | Peak | 348 | 21 | P |
| 5 | 2483.50 | -3.99 | 40.77 | 36.78 | 54.00 | -17.22 | Average | 348 | 21 | P |
| 6 | 2483.50 | -3.99 | 55.14 | 51.15 | 74.00 | -22.85 | Peak | 348 | 21 | P |
| 7 | 4874.00 | 4.73 | 35.84 | 40.57 | 54.00 | -13.43 | Average | 100 | 307 | P |
| 8 | 4874.00 | 4.73 | 43.10 | 47.83 | 74.00 | -26.17 | Peak | 100 | 307 | P |

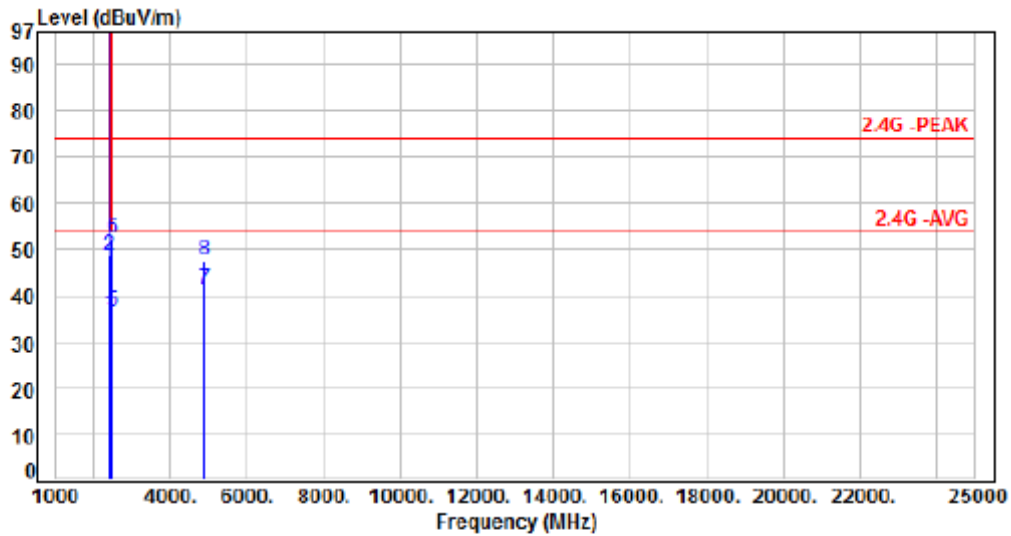
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 39.51 | 35.63 | 54.00 | -18.37 | Average | 100 | 94 | P |
| 2 | 2390.00 | -3.88 | 52.50 | 48.62 | 74.00 | -25.38 | Peak | 100 | 94 | P |
| 3 | 2437.00 | -3.94 | 103.69 | 99.75 | 200.00 | -100.25 | Average | 100 | 94 | P |
| 4 | 2437.00 | -3.94 | 110.29 | 106.35 | 200.00 | -93.65 | Peak | 100 | 94 | P |
| 5 | 2483.50 | -3.99 | 40.49 | 36.50 | 54.00 | -17.50 | Average | 100 | 94 | P |
| 6 | 2483.50 | -3.99 | 56.41 | 52.42 | 74.00 | -21.58 | Peak | 100 | 94 | P |
| 7 | 4874.00 | 4.73 | 36.53 | 41.26 | 54.00 | -12.74 | Average | 100 | 208 | P |
| 8 | 4874.00 | 4.73 | 42.77 | 47.50 | 74.00 | -26.50 | Peak | 100 | 208 | P |

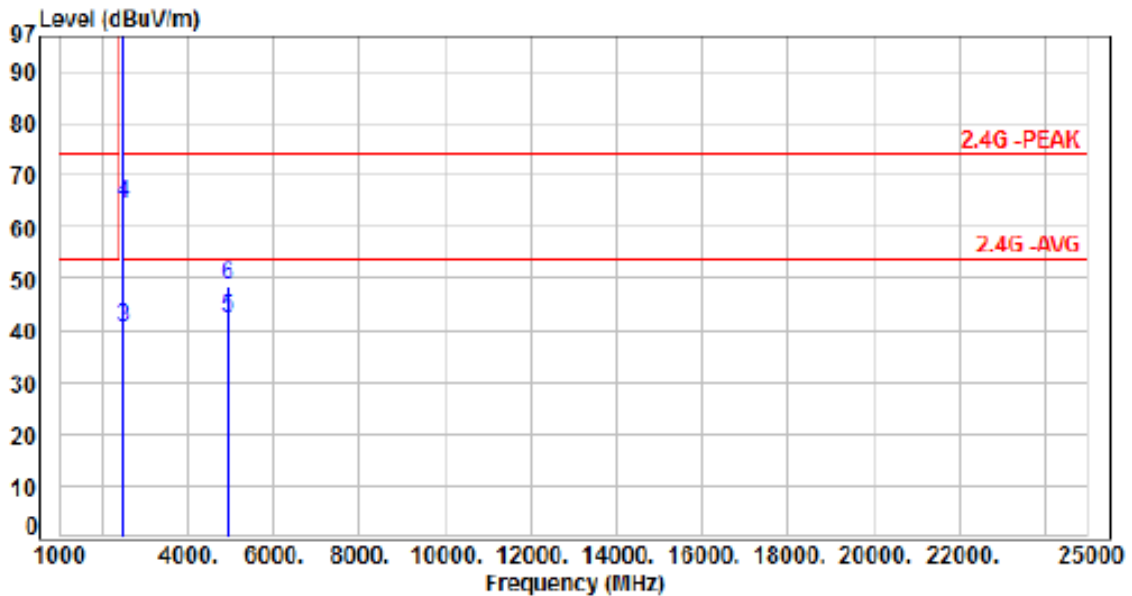
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, CH11 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2462.00 | -3.96 | 106.07 | 102.11 | 200.00 | -97.89 | Average | 385 | 24 | P |
| 2 | 2462.00 | -3.96 | 113.65 | 109.69 | 200.00 | -90.31 | Peak | 385 | 24 | P |
| 3 | 2483.50 | -3.99 | 44.39 | 40.40 | 54.00 | -13.60 | Average | 385 | 24 | P |
| 4 | 2483.50 | -3.99 | 68.59 | 64.60 | 74.00 | -9.40 | Peak | 385 | 24 | P |
| 5 | 4924.00 | 4.94 | 37.55 | 42.49 | 54.00 | -11.51 | Average | 100 | 167 | P |
| 6 | 4924.00 | 4.94 | 43.65 | 48.59 | 74.00 | -25.41 | Peak | 100 | 167 | P |

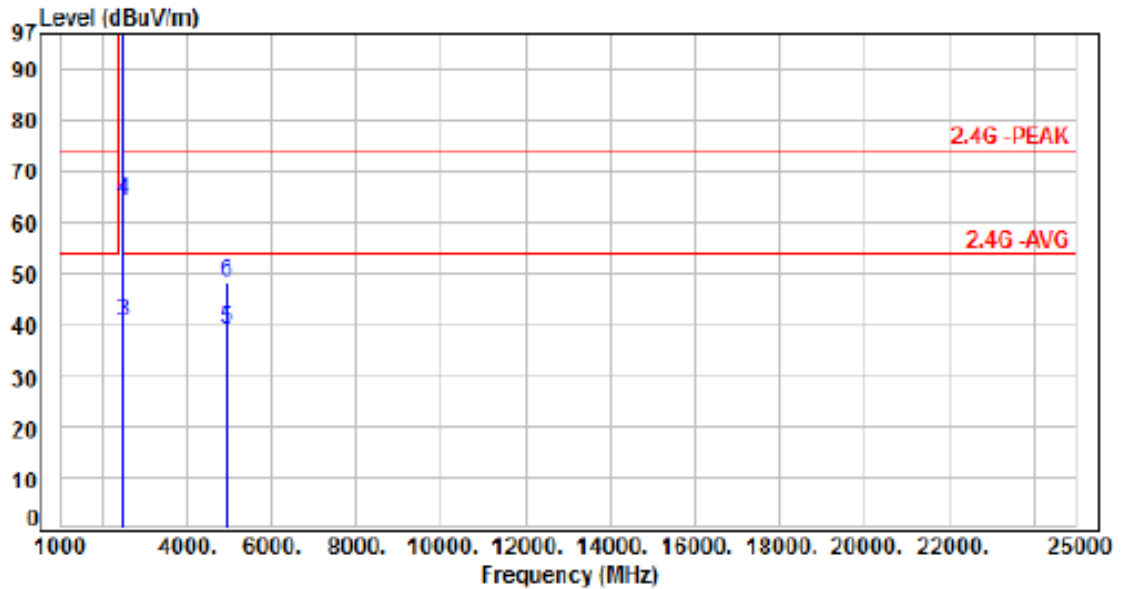
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, CH11 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2462.00 | -3.96 | 104.13 | 100.17 | 200.00 | -99.83 | Average | 100 | 71 | P |
| 2 | 2462.00 | -3.96 | 111.51 | 107.55 | 200.00 | -92.45 | Peak | 100 | 71 | P |
| 3 | 2483.50 | -3.99 | 44.51 | 40.52 | 54.00 | -13.48 | Average | 100 | 71 | P |
| 4 | 2483.50 | -3.99 | 68.27 | 64.28 | 74.00 | -9.72 | Peak | 100 | 71 | P |
| 5 | 4924.00 | 4.94 | 34.13 | 39.07 | 54.00 | -14.93 | Average | 100 | 207 | P |
| 6 | 4924.00 | 4.94 | 43.55 | 48.49 | 74.00 | -25.51 | Peak | 100 | 207 | P |

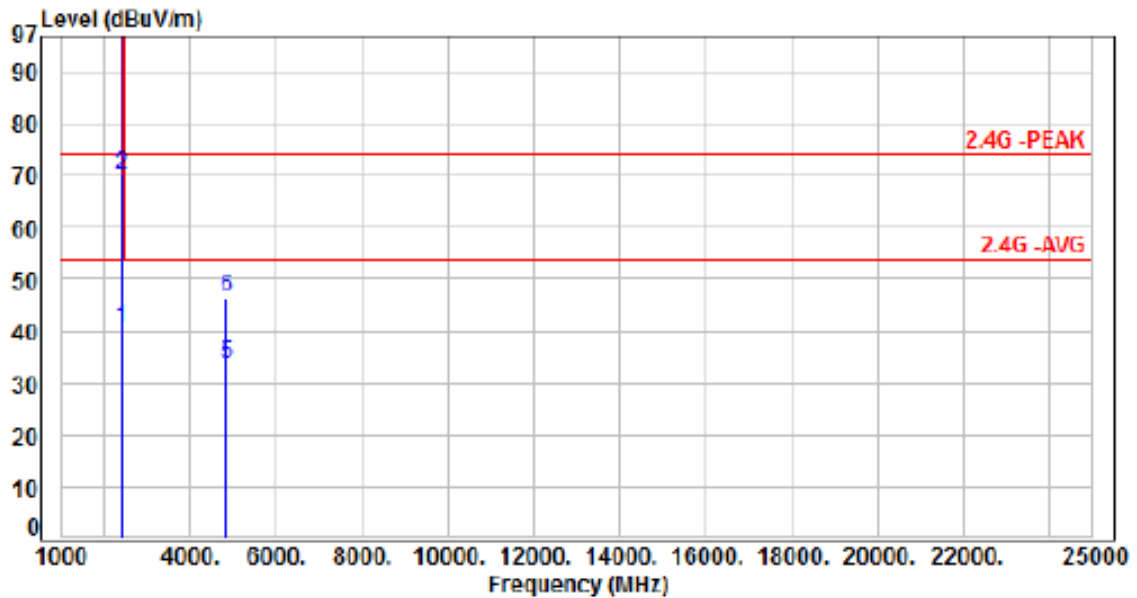
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, CH03 | | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 44.47 | 40.59 | 54.00 | -13.41 | Average | 400 | 13 | P |
| 2 | 2390.00 | -3.88 | 73.79 | 69.91 | 74.00 | -4.09 | Peak | 400 | 13 | P |
| 3 | 2422.00 | -3.93 | 109.18 | 105.25 | 200.00 | -94.75 | Average | 400 | 13 | P |
| 4 | 2422.00 | -3.93 | 113.68 | 109.75 | 200.00 | -90.25 | Peak | 400 | 13 | P |
| 5 | 4844.00 | 4.58 | 28.93 | 33.51 | 54.00 | -20.49 | Average | 100 | 166 | P |
| 6 | 4844.00 | 4.58 | 41.81 | 46.39 | 74.00 | -27.61 | Peak | 100 | 166 | P |

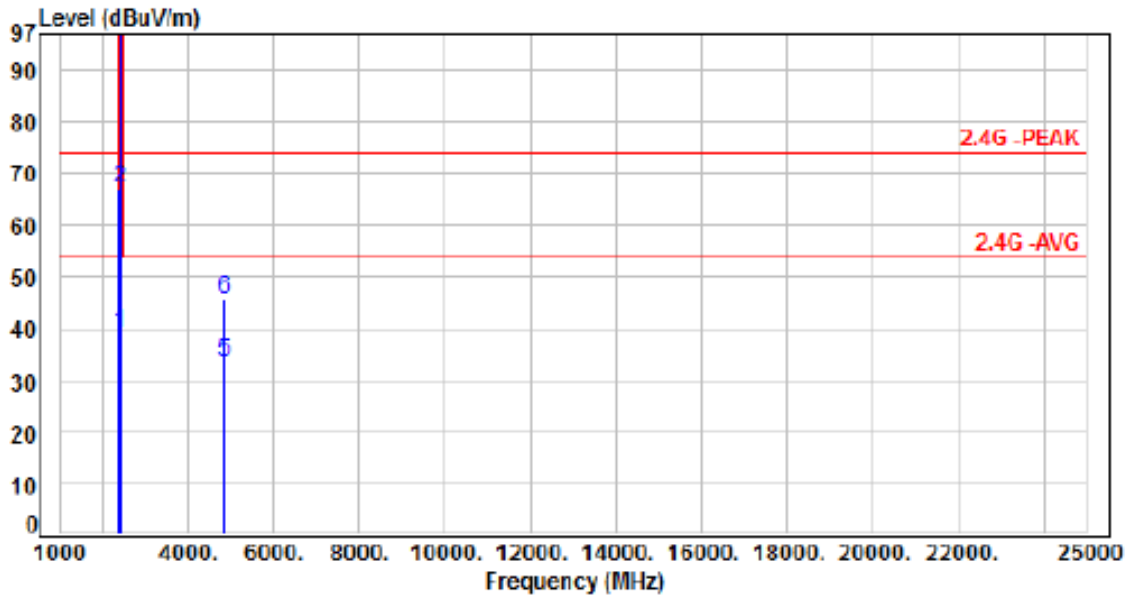
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, CH03 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 42.85 | 38.97 | 54.00 | -15.03 | Average | 100 | 74 | P |
| 2 | 2390.00 | -3.88 | 71.00 | 67.20 | 74.00 | -6.80 | Peak | 100 | 74 | P |
| 3 | 2422.00 | -3.93 | 106.68 | 102.75 | 200.00 | -97.25 | Average | 100 | 74 | P |
| 4 | 2422.00 | -3.93 | 110.52 | 106.59 | 200.00 | -93.41 | Peak | 100 | 74 | P |
| 5 | 4844.00 | 4.58 | 29.01 | 33.59 | 54.00 | -20.41 | Average | 100 | 337 | P |
| 6 | 4844.00 | 4.58 | 41.26 | 45.84 | 74.00 | -28.16 | Peak | 100 | 337 | P |

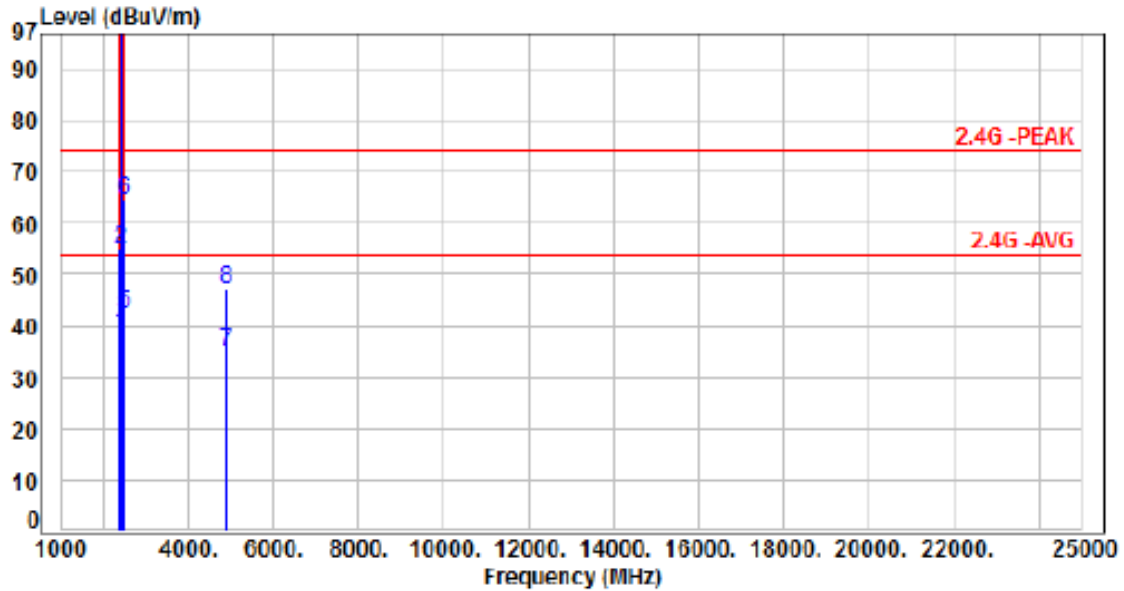
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.88 | 42.08 | 38.20 | 54.00 | -15.80 | Average | 393 | 356 | P |
| 2 | 2390.00 | -3.88 | 58.91 | 55.03 | 74.00 | -18.97 | Peak | 393 | 356 | P |
| 3 | 2437.00 | -3.94 | 104.78 | 100.84 | 200.00 | -99.16 | Average | 393 | 356 | P |
| 4 | 2437.00 | -3.94 | 107.85 | 103.91 | 200.00 | -96.09 | Peak | 393 | 356 | P |
| 5 | 2483.50 | -3.99 | 46.43 | 42.44 | 54.00 | -11.56 | Average | 393 | 356 | P |
| 6 | 2483.50 | -3.99 | 66.66 | 64.67 | 74.00 | -9.33 | Peak | 393 | 356 | P |
| 7 | 4874.00 | 4.73 | 30.37 | 35.10 | 54.00 | -18.90 | Average | 100 | 168 | P |
| 8 | 4874.00 | 4.73 | 42.46 | 47.19 | 74.00 | -26.81 | Peak | 100 | 168 | P |

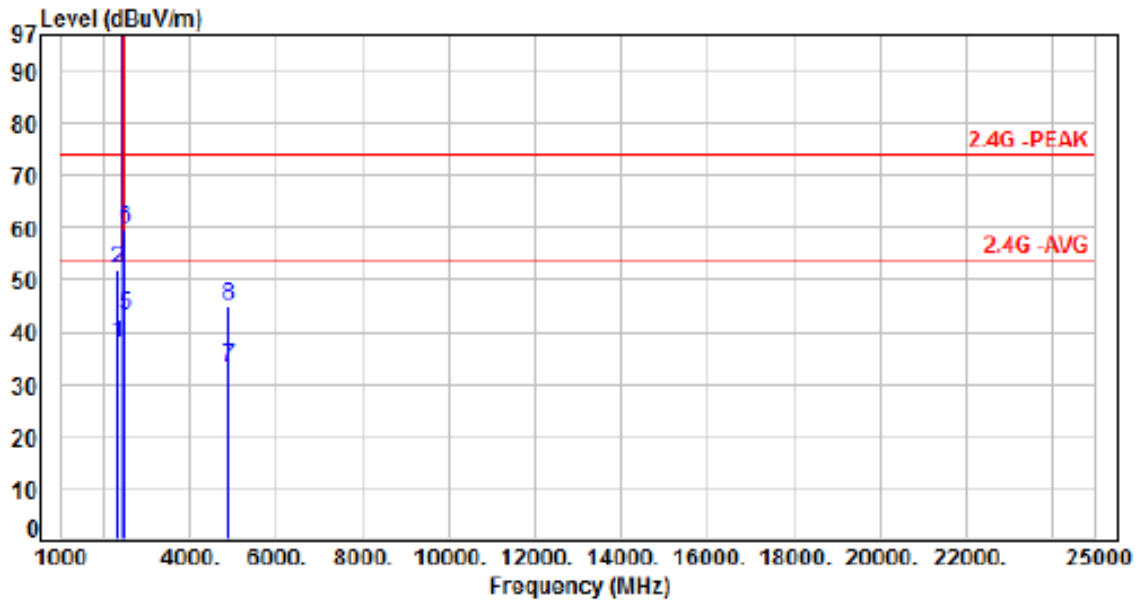
Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, CH06 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2310.00 | -3.81 | 41.31 | 37.50 | 54.00 | -16.50 | Average | 100 | 63 | P |
| 2 | 2310.00 | -3.81 | 55.77 | 51.96 | 74.00 | -22.04 | Peak | 100 | 63 | P |
| 3 | 2437.00 | -3.94 | 103.41 | 99.47 | 200.00 | -100.53 | Average | 100 | 63 | P |
| 4 | 2437.00 | -3.94 | 109.51 | 105.57 | 200.00 | -94.43 | Peak | 100 | 63 | P |
| 5 | 2483.50 | -3.99 | 46.99 | 43.00 | 54.00 | -11.00 | Average | 100 | 63 | P |
| 6 | 2483.50 | -3.99 | 63.77 | 59.78 | 74.00 | -14.22 | Peak | 100 | 63 | P |
| 7 | 4874.00 | 4.73 | 28.36 | 33.09 | 54.00 | -20.91 | Average | 100 | 337 | P |
| 8 | 4874.00 | 4.73 | 40.43 | 45.16 | 74.00 | -28.84 | Peak | 100 | 337 | P |

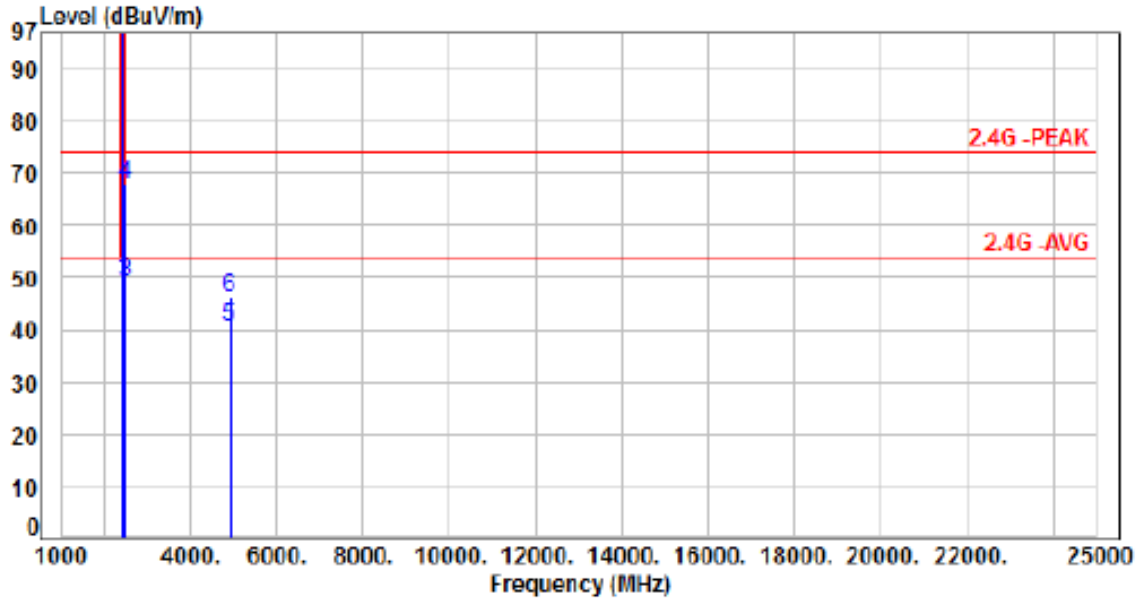
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, CH09 | | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2452.00 | -3.95 | 106.20 | 102.25 | 200.00 | -97.75 | Average | 307 | 355 | P |
| 2 | 2452.00 | -3.95 | 111.47 | 107.52 | 200.00 | -92.48 | Peak | 307 | 355 | P |
| 3 | 2483.50 | -3.99 | 53.09 | 49.10 | 54.00 | -4.90 | Average | 307 | 355 | P |
| 4 | 2483.50 | -3.99 | 71.82 | 67.83 | 74.00 | -6.17 | Peak | 307 | 355 | P |
| 5 | 4904.00 | 4.88 | 35.87 | 40.75 | 54.00 | -13.25 | Average | 100 | 188 | P |
| 6 | 4904.00 | 4.88 | 41.18 | 46.06 | 74.00 | -27.94 | Peak | 100 | 188 | P |

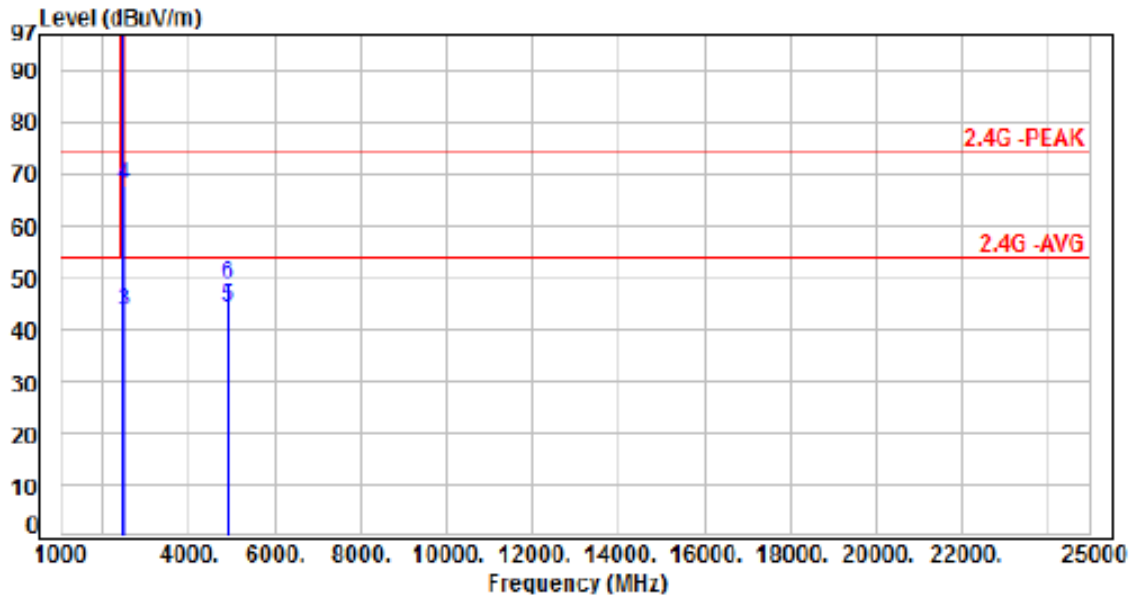
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



For 22090062-TRFCC01

BeamForming

| | | | |
|-----------|-----------------------------------|-----------|--------------|
| Power | : DC 12V From adapter (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, CH09 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2452.00 | -3.95 | 104.73 | 100.78 | 200.00 | -99.22 | Average | 100 | 302 | P |
| 2 | 2452.00 | -3.95 | 109.82 | 105.87 | 200.00 | -94.13 | Peak | 100 | 302 | P |
| 3 | 2483.50 | -3.99 | 47.53 | 43.54 | 54.00 | -10.46 | Average | 100 | 302 | P |
| 4 | 2483.50 | -3.99 | 71.98 | 67.99 | 74.00 | -6.01 | Peak | 100 | 302 | P |
| 5 | 4904.00 | 4.88 | 39.44 | 44.32 | 54.00 | -9.68 | Average | 100 | 216 | P |
| 6 | 4904.00 | 4.88 | 43.80 | 48.68 | 74.00 | -25.32 | Peak | 100 | 216 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|-----------------|
| 0.09000 – 0.11000 | 16.42000 – 16.42300 | 399.9 – 410.0 | 4.500 – 5.250 |
| 0.49500 – 0.505** | 16.69475 – 16.69525 | 608.0 – 614.0 | 5.350 – 5.460 |
| 2.17350 – 2.19050 | 16.80425 – 16.80475 | 960.0 – 1240.0 | 7.250 – 7.750 |
| 4.12500 – 4.12800 | 25.50000 – 25.67000 | 1300.0 – 1427.0 | 8.025 – 8.500 |
| 4.17725 – 4.17775 | 37.50000 – 38.25000 | 1435.0 – 1626.5 | 9.000 – 9.200 |
| 4.20725 – 4.20775 | 73.00000 – 74.60000 | 1645.5 – 1646.5 | 9.300 – 9.500 |
| 6.21500 – 6.21800 | 74.80000 – 75.20000 | 1660.0 – 1710.0 | 10.600 – 12.700 |
| 6.26775 – 6.26825 | 108.00000 – 121.94000 | 1718.8 – 1722.2 | 13.250 – 13.400 |
| 6.31175 – 6.31225 | 123.00000 – 138.00000 | 2200.0 – 2300.0 | 14.470 – 14.500 |
| 8.29100 – 8.29400 | 149.90000 – 150.05000 | 2310.0 – 2390.0 | 15.350 – 16.200 |
| 8.36200 – 8.36600 | 156.52475 – 156.52525 | 2483.5 – 2500.0 | 17.700 – 21.400 |
| 8.37625 – 8.38675 | 156.70000 – 156.90000 | 2655.0 – 2900.0 | 22.010 – 23.120 |
| 8.41425 – 8.41475 | 162.01250 – 167.17000 | 3260.0 – 3267.0 | 23.600 – 24.000 |
| 12.29000 – 12.29300 | 167.72000 – 173.20000 | 3332.0 – 3339.0 | 31.200 – 31.800 |
| 12.51975 – 12.52025 | 240.00000 – 285.00000 | 3345.8 – 3358.0 | 36.430 – 36.500 |
| 12.57675 – 12.57725 | 322.00000 – 335.40000 | 3600.0 – 4400.0 | Above 38.6 |
| 13.36000 – 13.41000 | | | |

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. Test of Conducted Spurious Emission

7.1 Test Limit

According to the methods defined in ANSI C63.10-2013 Section 11.11.1

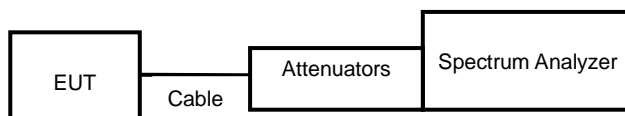
Below -30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.11.2 & 11.11.3

- a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

Note: Test plots refers to the following pages.



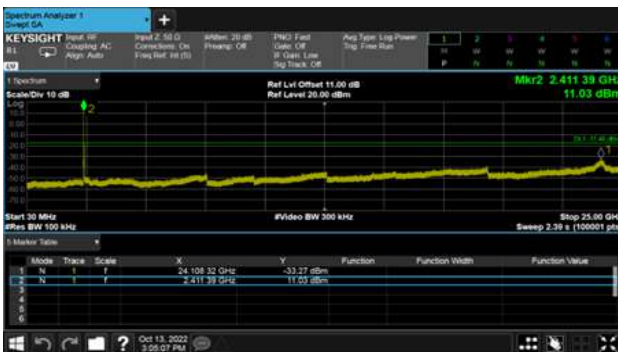
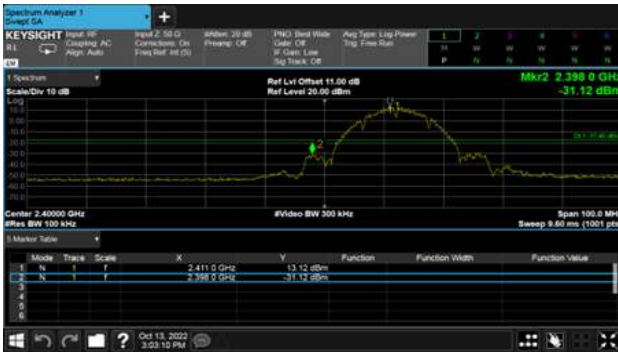
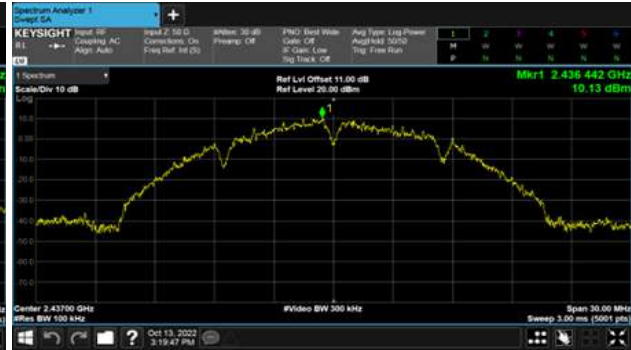
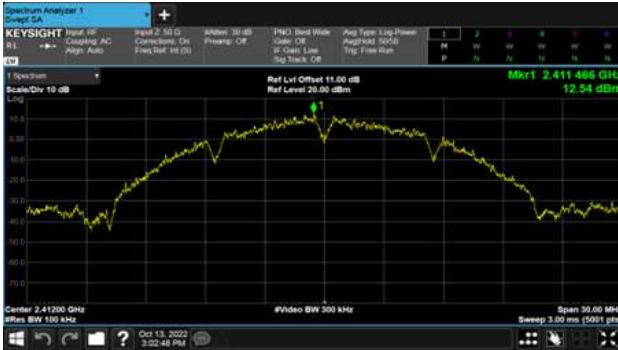
For 22090062-TRFCC01

Non BeamForming

ANT 1

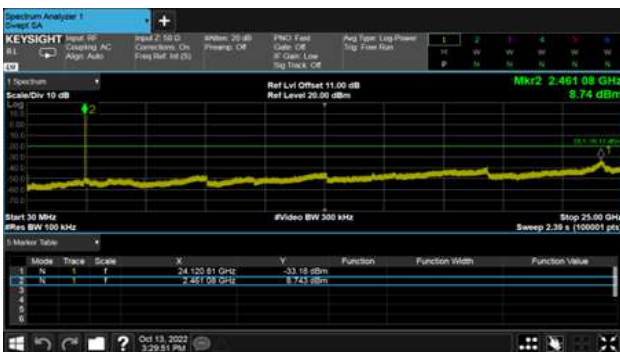
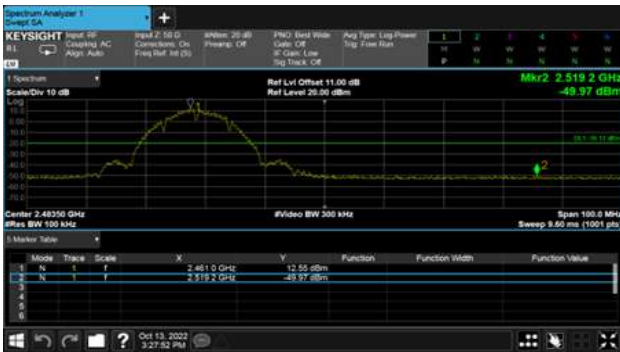
Modulation Type: 802.11b, CH 01

Modulation Type: 802.11b, CH 06





For 22090062-TRFCC01
Non BeamForming
ANT 1
Modulation Type: 802.11b, CH 11





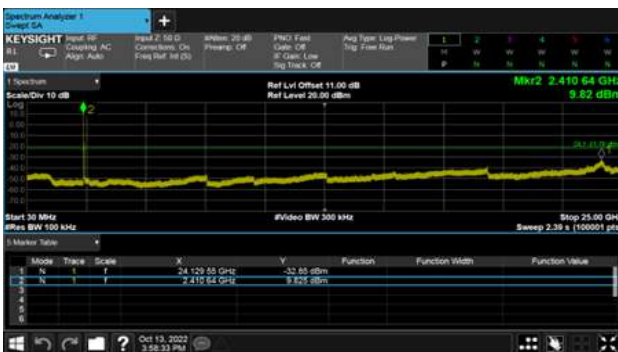
For 22090062-TRFCC01

Non BeamForming

ANT 1

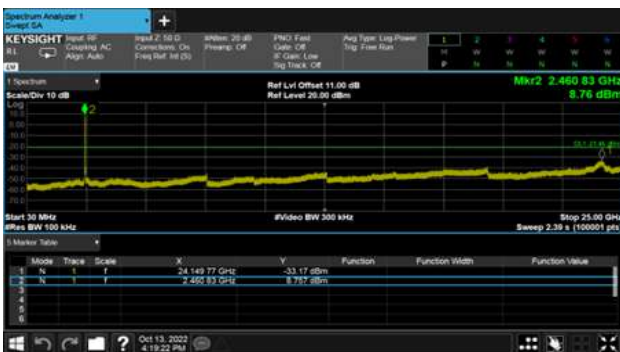
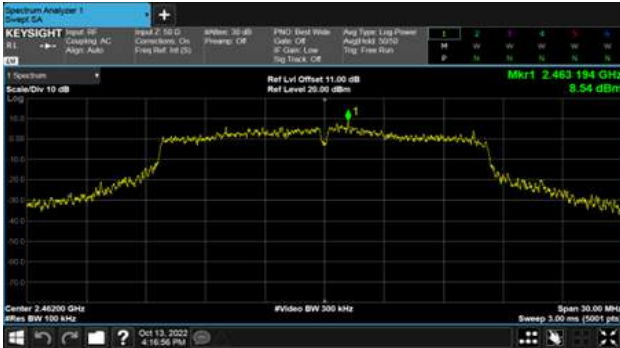
Modulation Type: 802.11g, CH 01

Modulation Type: 802.11g, CH 06





For 22090062-TRFCC01
Non BeamForming
ANT 1
Modulation Type: 802.11g, CH 11





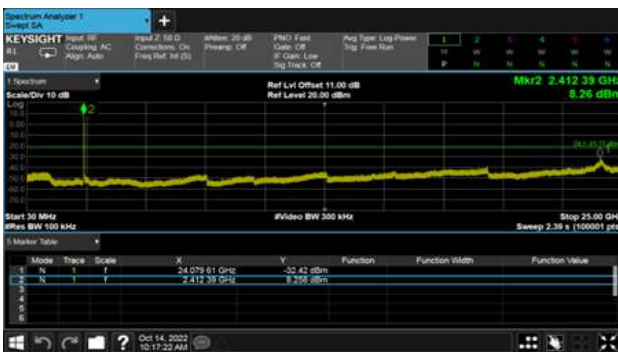
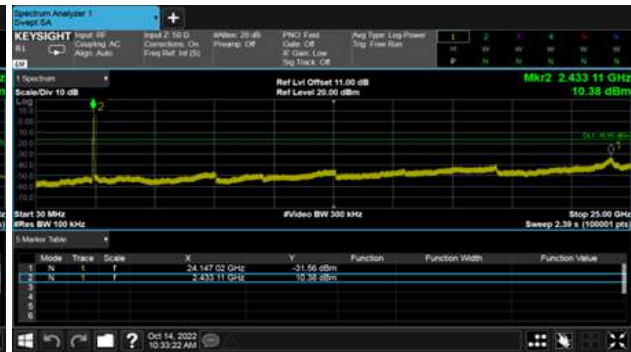
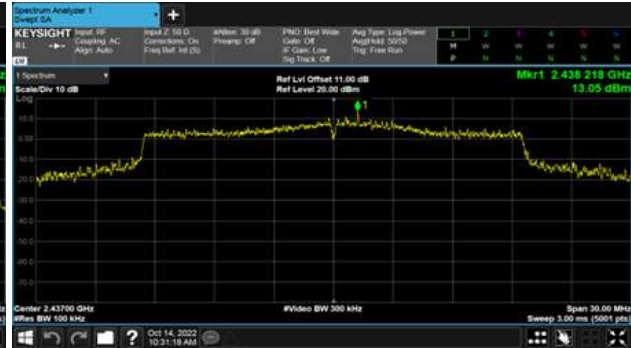
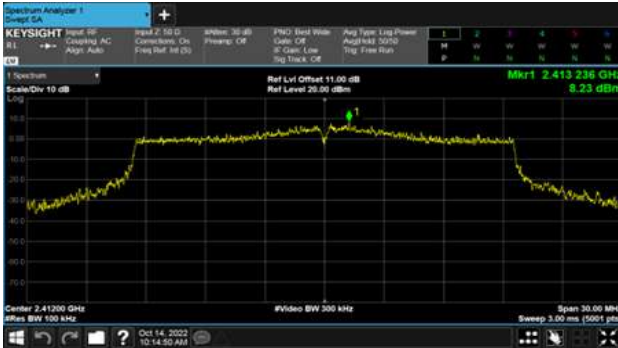
For 22090062-TRFCC01

Non BeamForming

ANT 1

Modulation Type: 802.11ax HE20, CH01

Modulation Type: 802.11ax HE20, CH06



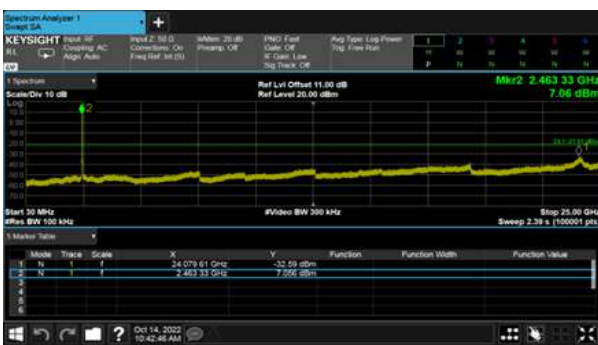
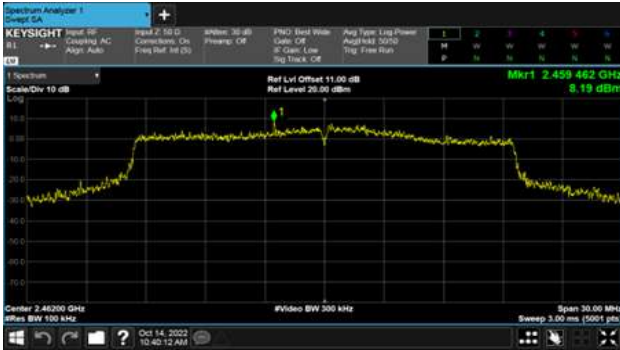


For 22090062-TRFCC01

Non BeamForming

ANT 1

Modulation Type: 802.11ax HE20, CH11



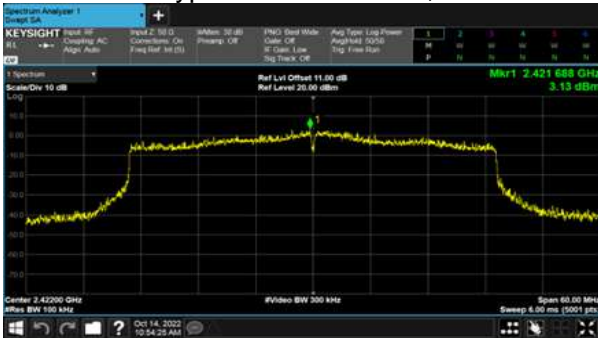


For 22090062-TRFCC01

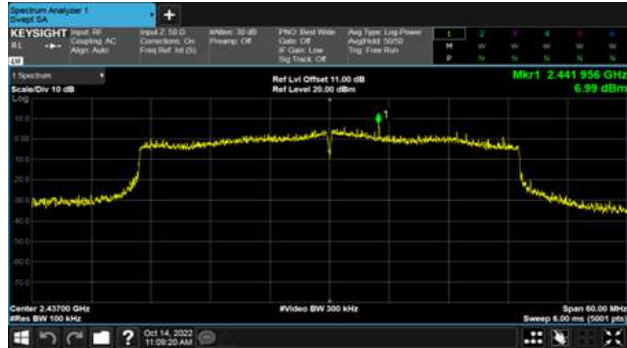
Non BeamForming

ANT 1

Modulation Type: 802.11ax HE40, CH03



Modulation Type: 802.11ax HE40, CH06



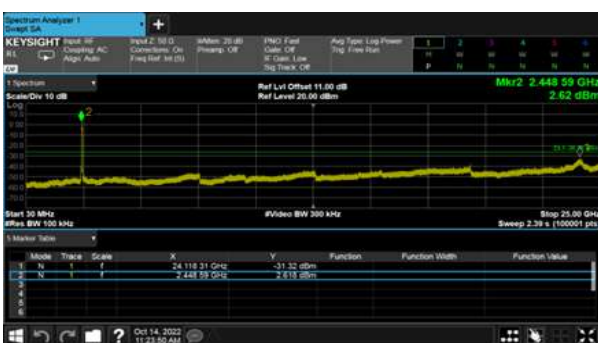


For 22090062-TRFCC01

Non BeamForming

ANT 1

Modulation Type: 802.11ax HE40, CH09





For 22090062-TRFCC01

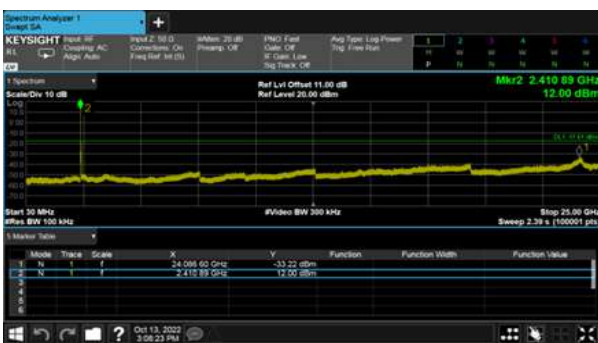
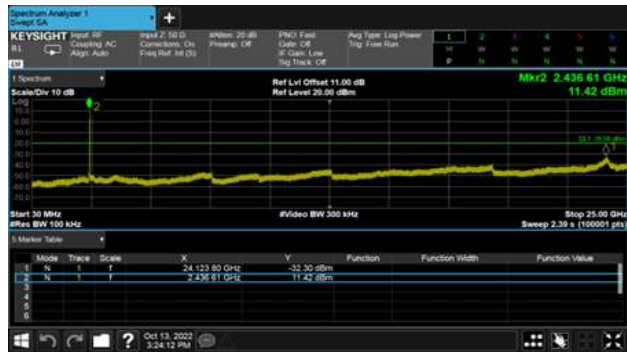
Non BeamForming

ANT 2

Modulation Type: 802.11b, CH 01



Modulation Type: 802.11b, CH 06



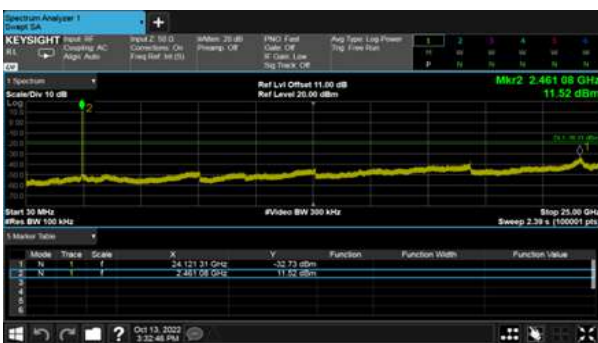
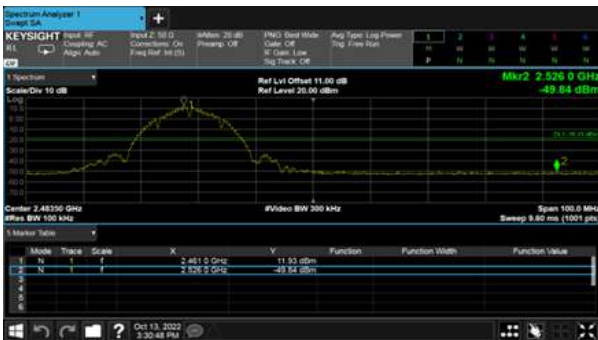


For 22090062-TRFCC01

Non BeamForming

ANT 2

Modulation Type: 802.11b, CH 11





For 22090062-TRFCC01

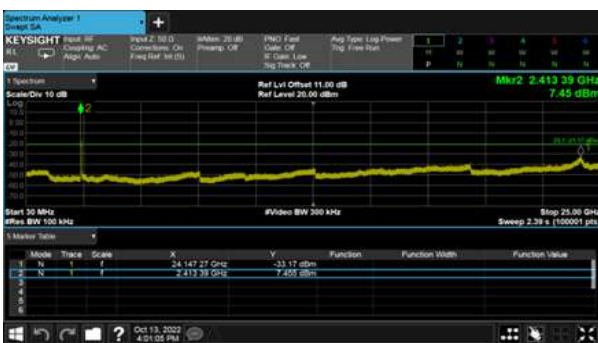
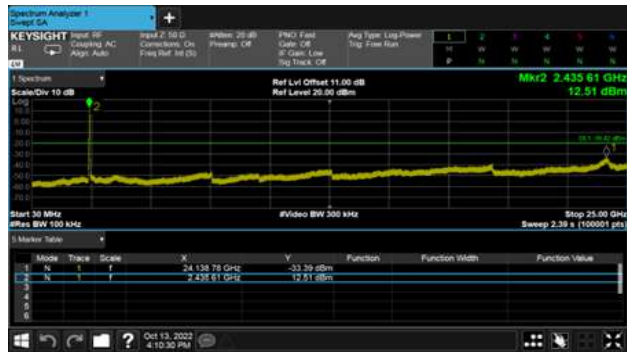
Non BeamForming

ANT 2

Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06



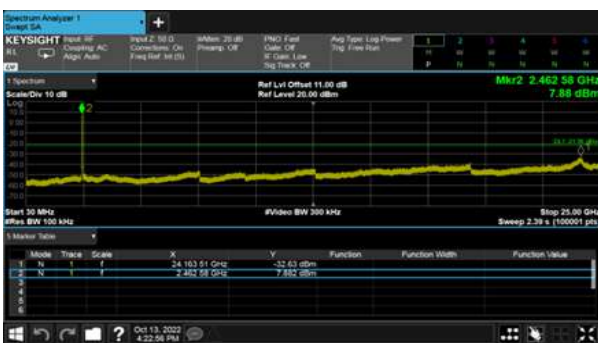


For 22090062-TRFCC01

Non BeamForming

ANT 2

Modulation Type: 802.11g, CH 11



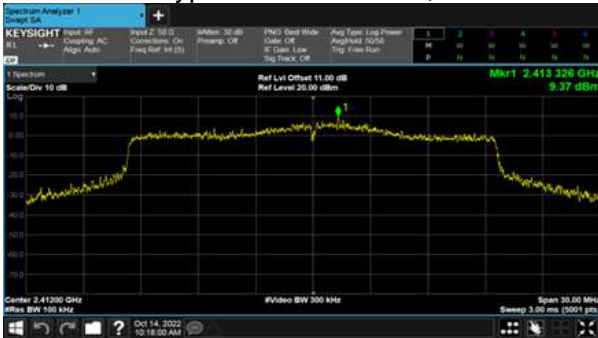


For 22090062-TRFCC01

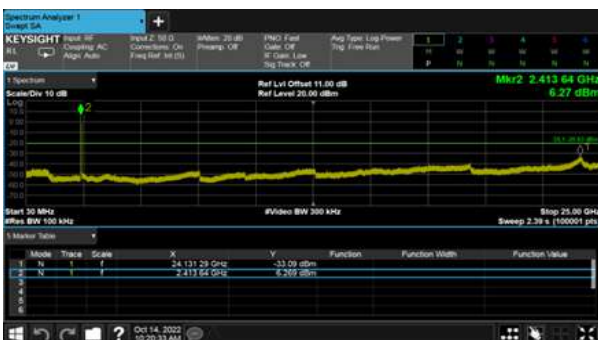
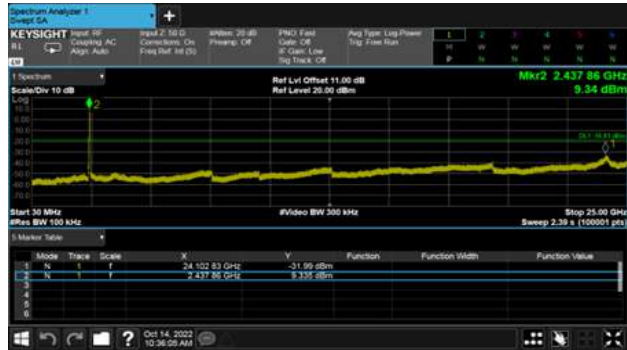
Non BeamForming

ANT 2

Modulation Type: 802.11ax HE20, CH01



Modulation Type: 802.11ax HE20, CH06



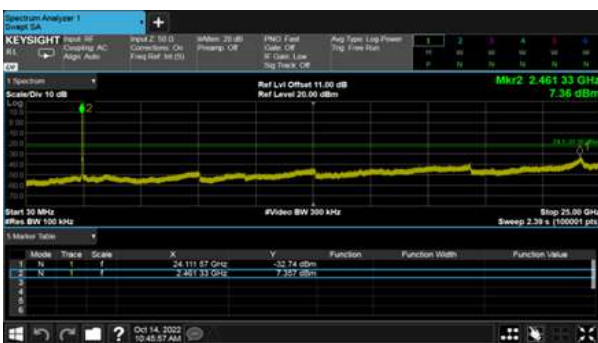


For 22090062-TRFCC01

Non BeamForming

ANT 2

Modulation Type: 802.11ax HE20, CH11



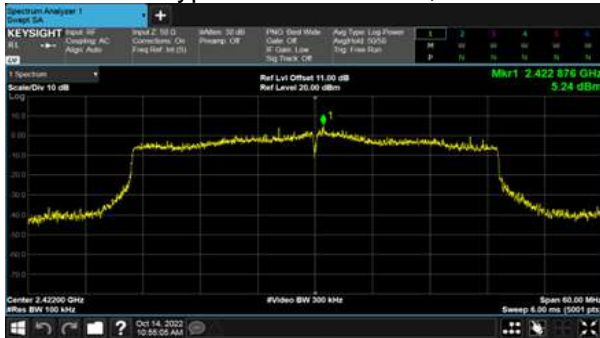


For 22090062-TRFCC01

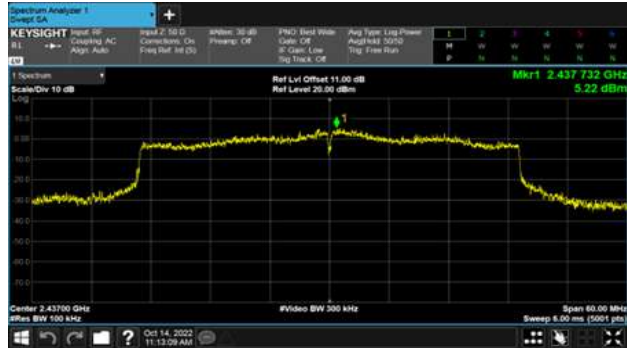
Non BeamForming

ANT 2

Modulation Type: 802.11ax HE40, CH03



Modulation Type: 802.11ax HE40, CH06



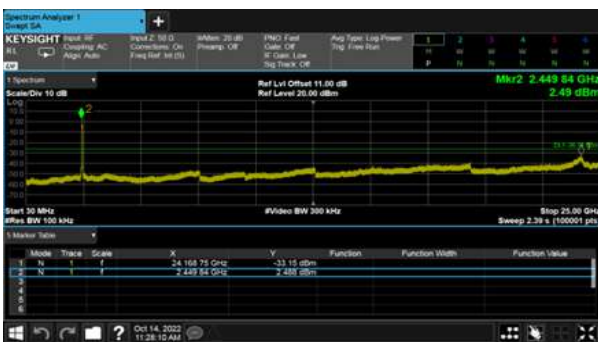


For 22090062-TRFCC01

Non BeamForming

ANT 2

Modulation Type: 802.11ax HE40, CH09





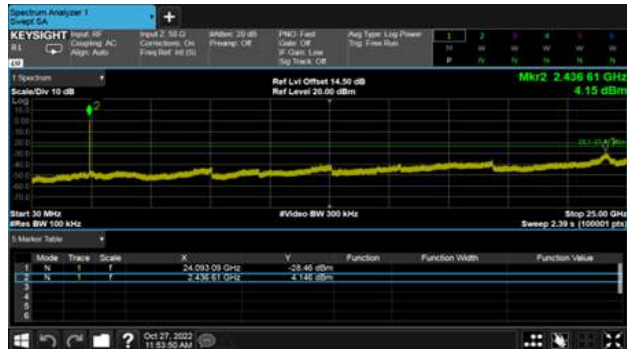
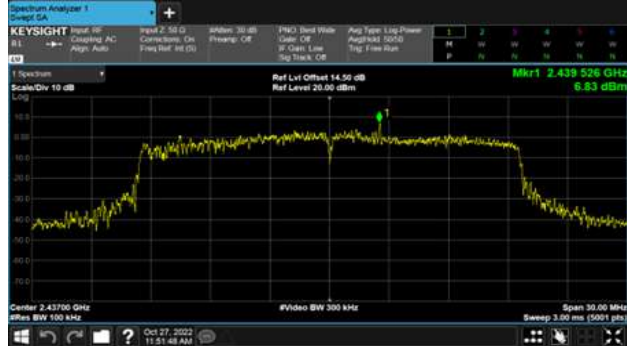
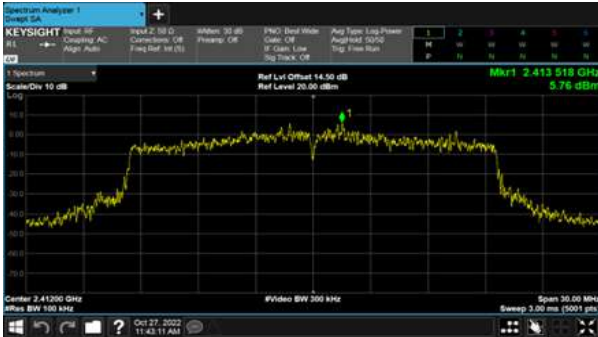
For 22090062-TRFCC01

BeamForming

ANT 1

Modulation Type: 802.11ax HE20, CH01

Modulation Type: 802.11ax HE20, CH06



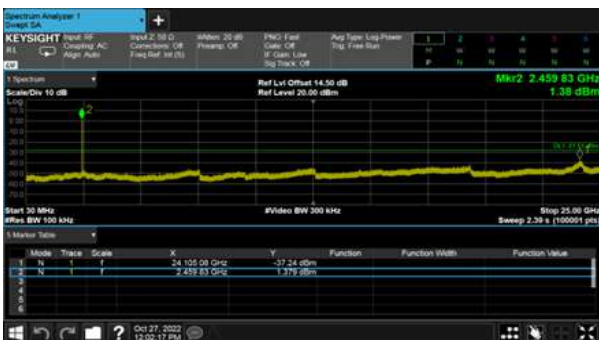
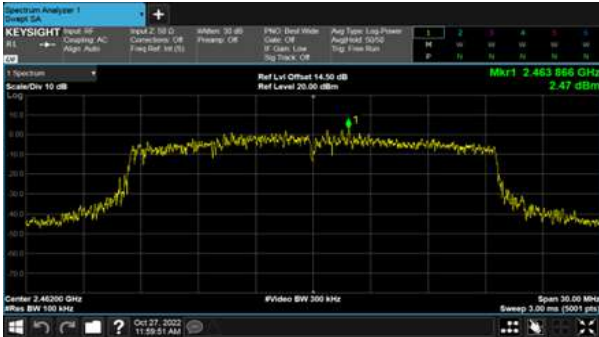


For 22090062-TRFCC01

BeamForming

ANT 1

Modulation Type: 802.11ax HE20, CH11



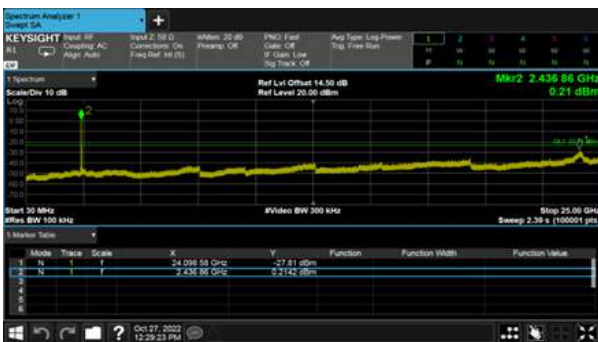
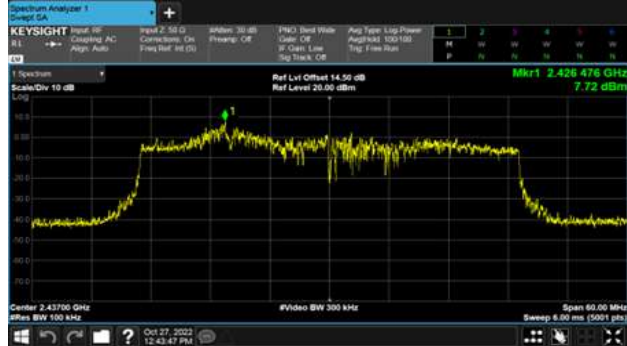


For 22090062-TRFCC01

BeamForming
ANT 1

Modulation Type: 802.11ax HE40, CH03

Modulation Type: 802.11ax HE40, CH06



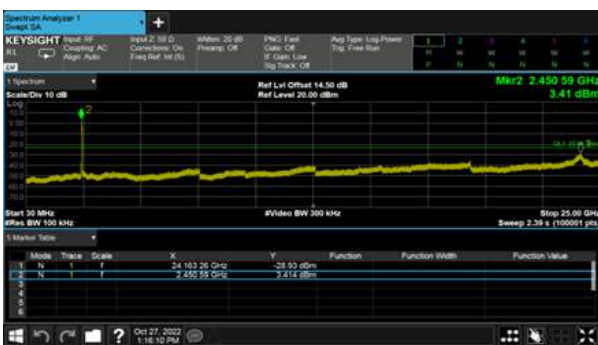
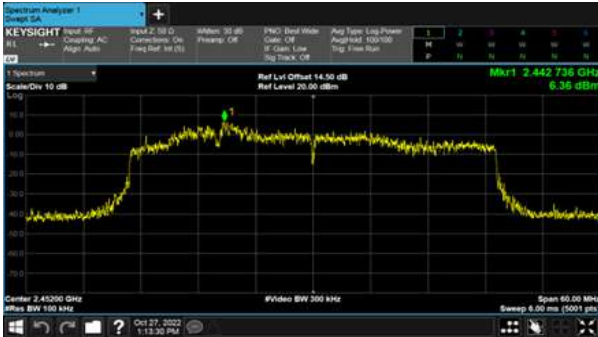


For 22090062-TRFCC01

BeamForming

ANT 1

Modulation Type: 802.11ax HE40, CH09





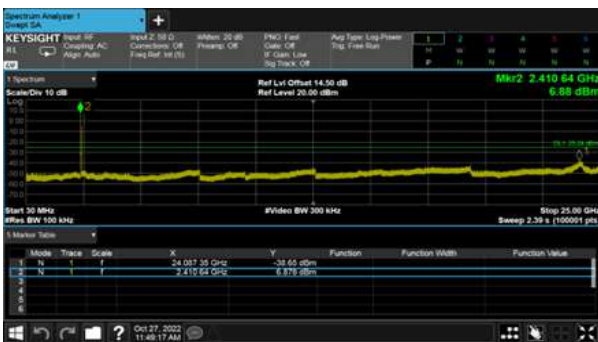
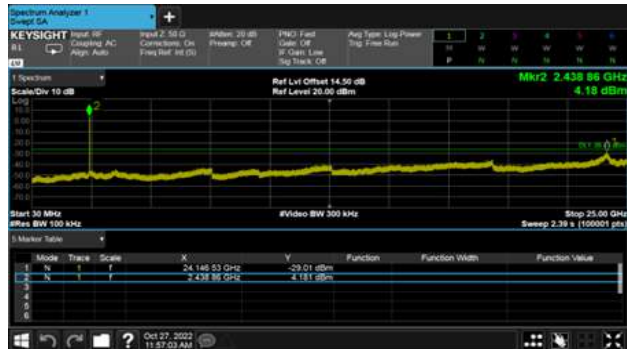
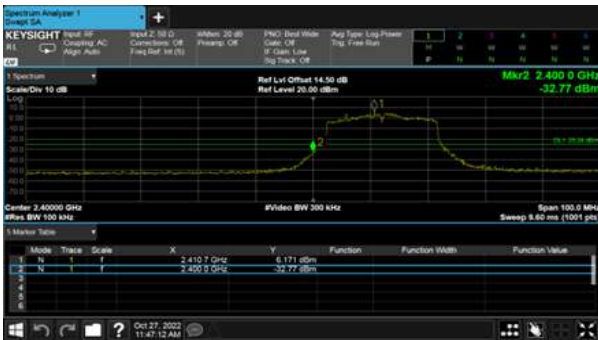
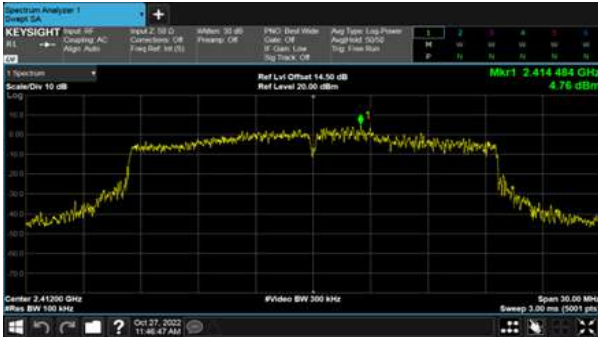
For 22090062-TRFCC01

BeamForming

ANT 2

Modulation Type: 802.11ax HE20, CH01

Modulation Type: 802.11ax HE20, CH06



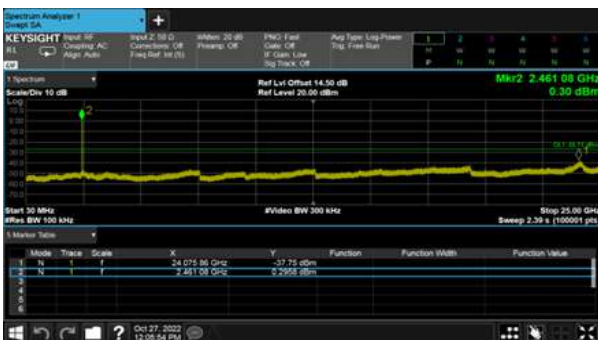


For 22090062-TRFCC01

BeamForming

ANT 2

Modulation Type: 802.11ax HE20, CH11





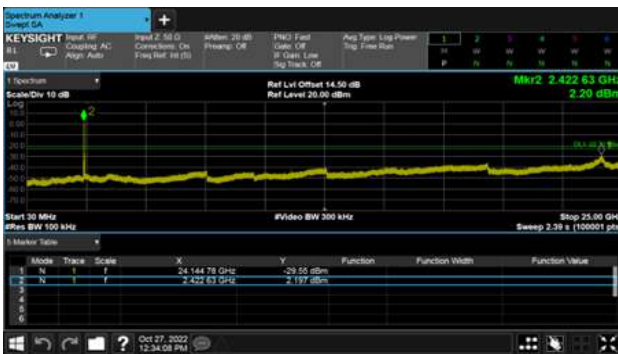
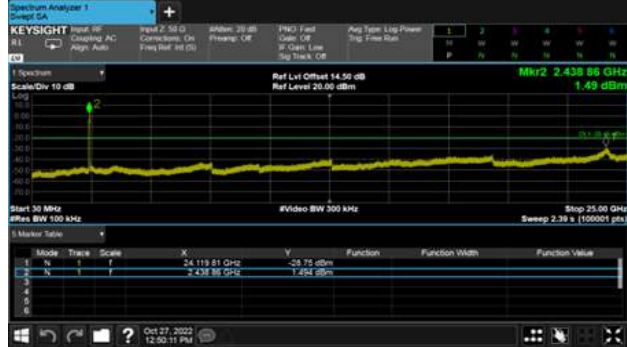
For 22090062-TRFCC01

BeamForming

ANT 2

Modulation Type: 802.11ax HE40, CH03

Modulation Type: 802.11ax HE40, CH06



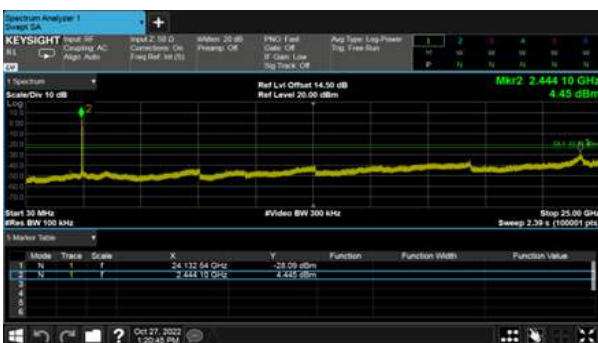


For 22090062-TRFCC01

BeamForming

ANT 2

Modulation Type: 802.11ax HE40, CH09





8. On Time, Duty Cycle and Measurement methods

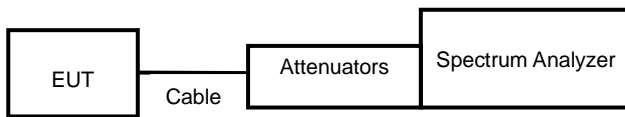
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.6
Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

For 22090062-TRFCC01

| Non BeamForming | | | |
|-----------------|----------------|--------------------|----------------|
| Modulation Type | On Time (msec) | Period Time (msec) | Duty Cycle (%) |
| 11b,1M | 0.69 | 1.18 | 58.88% |
| 11g,6M | 1.98 | 2.09 | 94.74% |
| 11ax HE20 | 5.46 | 6.37 | 85.69% |
| 11ax HE40 | 5.47 | 5.92 | 92.40% |

| BeamForming | | | |
|-----------------|----------------|--------------------|----------------|
| Modulation Type | On Time (msec) | Period Time (msec) | Duty Cycle (%) |
| 11ax HE20 | 8.04 | 8.34 | 96.40% |
| 11ax HE40 | 8.02 | 8.24 | 97.33% |



For 22090062-TRFCC01
Non BeamForming
Modulation Type: 802.11b(1Mbps)



Modulation Type: 802.11ax HE40(14.6Mbps)



Modulation Type: 802.11g(6Mbps)



Modulation Type: 802.11ax HE20(7.3Mbps)

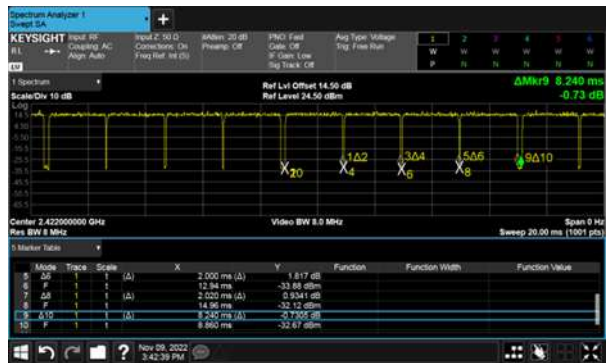
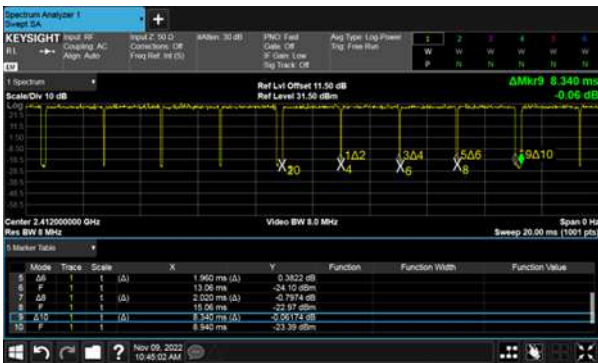
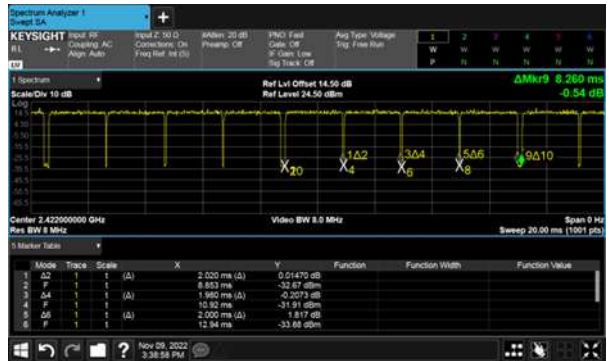
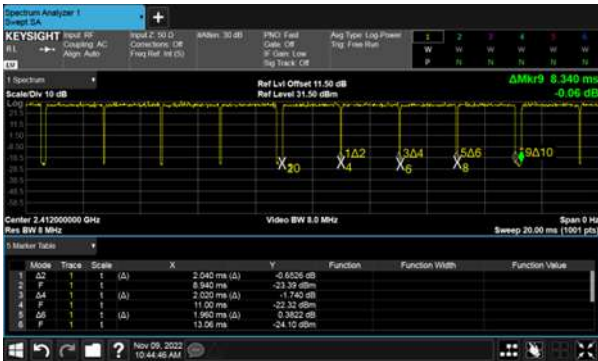




For 22090062-TRFCC01

BeamForming
Modulation Type: 802.11ax HE20(7.3Mbps)

Modulation Type: 802.11ax HE40(14.6Mbps)





9. 6dB Bandwidth Measurement Data

9.1 Test Limit

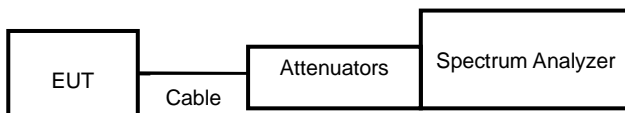
The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.8

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout





9.4 Test Result and Data

For 22090062-TRFCC01

Non BeamForming

| Modulation Type | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Limit (MHz) |
|-----------------|---------|-----------------|---------------------|-------|-------------|
| | | | ANT 1 | ANT 2 | |
| 11b | 1 | 2412 | 7.11 | 7.04 | 0.5 |
| | 6 | 2437 | 7.56 | 8.07 | 0.5 |
| | 11 | 2462 | 7.55 | 6.09 | 0.5 |
| 11g | 1 | 2412 | 13.82 | 13.79 | 0.5 |
| | 6 | 2437 | 15.15 | 15.13 | 0.5 |
| | 11 | 2462 | 13.85 | 13.86 | 0.5 |
| 11ax HE20 | 1 | 2412 | 15.03 | 11.39 | 0.5 |
| | 6 | 2437 | 13.87 | 13.88 | 0.5 |
| | 11 | 2462 | 16.17 | 16.16 | 0.5 |
| 11ax HE40 | 3 | 2422 | 32.53 | 30.13 | 0.5 |
| | 6 | 2437 | 32.59 | 30.01 | 0.5 |
| | 9 | 2452 | 25.90 | 23.84 | 0.5 |

BeamForming

| Modulation Type | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Limit (MHz) |
|-----------------|---------|-----------------|---------------------|-------|-------------|
| | | | ANT 1 | ANT 2 | |
| 11ax HE20 | 1 | 2412 | 16.25 | 18.57 | 0.5 |
| | 6 | 2437 | 18.80 | 19.05 | 0.5 |
| | 11 | 2462 | 16.73 | 18.88 | 0.5 |
| 11ax HE40 | 3 | 2422 | 33.78 | 30.09 | 0.5 |
| | 6 | 2437 | 35.32 | 35.32 | 0.5 |
| | 9 | 2452 | 36.77 | 38.05 | 0.5 |



For 22090062-TRFCC01
Non BeamForming
ANT 1
Modulation Type: 802.11b
CH01

Modulation Type: 802.11g
CH01



CH06

CH06



CH11

CH11





For 22090062-TRFCC01

Non BeamForming

ANT 1

Modulation Type: 802.11ax HE20

CH01

Modulation Type: 802.11ax HE40

CH03



CH06



CH06



CH11



CH09





For 22090062-TRFCC01

Non BeamForming

ANT 2

Modulation Type: 802.11b

CH01

Modulation Type: 802.11g

CH01



CH06

CH06



CH11

CH11





For 22090062-TRFCC01

Non BeamForming

ANT 2

Modulation Type: 802.11ax HE20

CH01

Modulation Type: 802.11ax HE40

CH03



CH06



CH06



CH11



CH09





For 22090062-TRFCC01

BeamForming

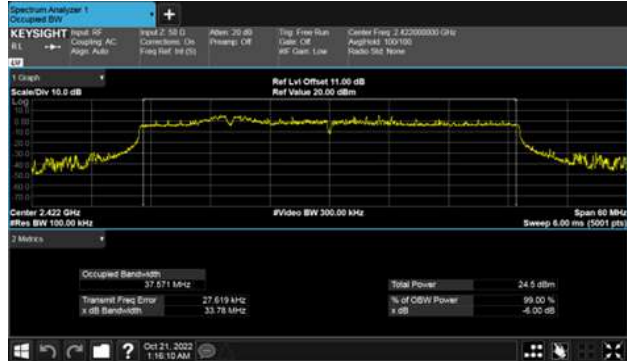
ANT 1

Modulation Type: 802.11ax HE20

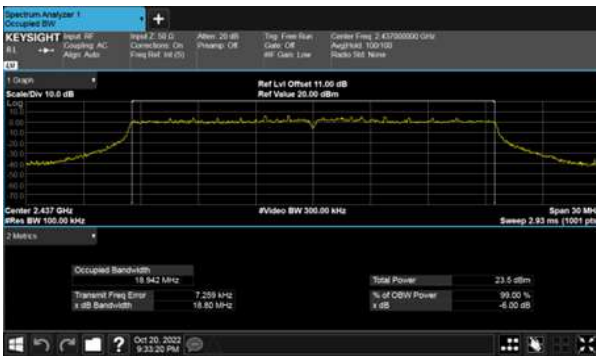
CH01

Modulation Type: 802.11ax HE40

CH03



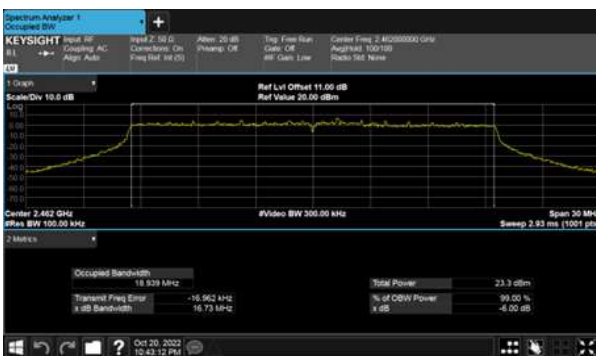
CH06



CH06



CH11



CH09





For 22090062-TRFCC01

BeamForming

ANT 2

Modulation Type: 802.11ax HE20

CH01

Modulation Type: 802.11ax HE40

CH03



CH06



CH06



CH11



CH09





10. Maximum Average Output Power

10.1 Test Limit

The Maximum Average Output Power Measurement is 30dBm.

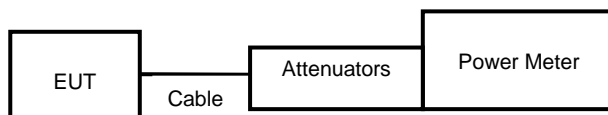
If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.9.2.3.2

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

10.3 Test Setup Layout





10.4 Test Result and Data

For 22090062-TRFCC01

Non Beamforming

| Modulation Mode | Channel | Frequency (MHz) | Conducted(average) output power (dBm) | | Total AV power (dBm) | Total AV power (mW) | Powe Limit (dBm) |
|-----------------|---------|-----------------|---------------------------------------|-------|----------------------|---------------------|------------------|
| | | | ANT 1 | ANT 2 | | | |
| 11b | 1 | 2412 | 21.19 | 21.09 | 24.15 | 260.051 | 30.00 |
| | 6 | 2437 | 19.67 | 19.34 | 22.52 | 178.584 | 30.00 |
| | 11 | 2462 | 19.71 | 19.83 | 22.78 | 189.702 | 30.00 |
| 11g | 1 | 2412 | 19.76 | 19.84 | 22.81 | 191.007 | 30.00 |
| | 6 | 2437 | 21.92 | 21.79 | 24.87 | 306.605 | 30.00 |
| | 11 | 2462 | 19.00 | 19.04 | 22.03 | 159.601 | 30.00 |
| 11ax HE20 | 1 | 2412 | 18.92 | 18.49 | 21.72 | 148.615 | 30.00 |
| | 6 | 2437 | 21.74 | 21.71 | 24.74 | 297.531 | 30.00 |
| | 11 | 2462 | 19.11 | 18.85 | 21.99 | 158.207 | 30.00 |
| 11ax HE40 | 3 | 2422 | 17.38 | 17.40 | 20.40 | 109.656 | 30.00 |
| | 6 | 2437 | 19.35 | 19.37 | 22.37 | 172.596 | 30.00 |
| | 9 | 2452 | 17.14 | 16.80 | 19.98 | 99.624 | 30.00 |

Beamforming

| Modulation Mode | Channel | Frequency (MHz) | Conducted(average) output power(dBm) | | Total AV power (dBm) | Total AV power (mW) | Powe Limit (dBm) |
|-----------------|---------|-----------------|--------------------------------------|-------|----------------------|---------------------|------------------|
| | | | ANT 1 | ANT 2 | | | |
| 11ax HE20 | 1 | 2412 | 17.65 | 17.68 | 20.68 | 116.824 | 29.25 |
| | 6 | 2437 | 17.32 | 17.58 | 20.46 | 111.231 | 29.25 |
| | 11 | 2462 | 17.20 | 17.01 | 20.12 | 102.715 | 29.25 |
| 11ax HE40 | 3 | 2422 | 17.83 | 18.04 | 20.95 | 124.353 | 29.25 |
| | 6 | 2437 | 17.78 | 17.81 | 20.81 | 120.374 | 29.25 |
| | 9 | 2452 | 17.73 | 17.68 | 20.72 | 117.906 | 29.25 |



11. Power Spectral Density

11.1 Test Limit

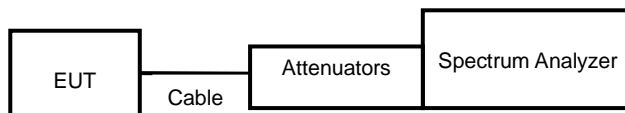
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

11.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.10

11.3 Test Setup Layout



**11.4 Test Result and Data**

For 22090062-TRFCC01
Non Beamforming

| Modulation Type | Channel | Frequency (MHz) | Maximum Power Density of 100KHz Bandwidth(dBm) | | Sum chain (dBm) | Duty Cycle CF(dB) | Total PSD (dBm) | Limit (dBm) |
|-----------------|---------|-----------------|--|--------|-----------------|-------------------|-----------------|-------------|
| | | | ANT 1 | ANT 2 | | | | |
| 11b | 1 | 2412 | 1.65 | 1.527 | 4.60 | 2.30 | 6.90 | 7.25 |
| | 6 | 2437 | -0.153 | 0.297 | 3.09 | 2.30 | 5.39 | 7.25 |
| | 11 | 2462 | -0.6 | -1.702 | 1.89 | 2.30 | 4.19 | 7.25 |
| 11g | 1 | 2412 | 2.046 | 2.143 | 5.11 | 0.23 | 5.34 | 7.25 |
| | 6 | 2437 | 3.396 | 3.12 | 6.27 | 0.23 | 6.50 | 7.25 |
| | 11 | 2462 | 0.933 | 1.386 | 4.18 | 0.23 | 4.41 | 7.25 |
| 11ax HE20 | 1 | 2412 | -0.716 | -0.756 | 2.27 | 0.67 | 2.94 | 7.25 |
| | 6 | 2437 | 1.97 | 1.85 | 4.92 | 0.67 | 5.59 | 7.25 |
| | 11 | 2462 | -0.669 | -0.075 | 2.65 | 0.67 | 3.32 | 7.25 |
| 11ax HE40 | 3 | 2422 | -5.677 | -5.746 | -2.70 | 0.34 | -2.36 | 7.25 |
| | 6 | 2437 | -2.733 | -2.487 | 0.40 | 0.34 | 0.74 | 7.25 |
| | 9 | 2452 | -4.582 | -4.262 | -1.41 | 0.34 | -1.07 | 7.25 |

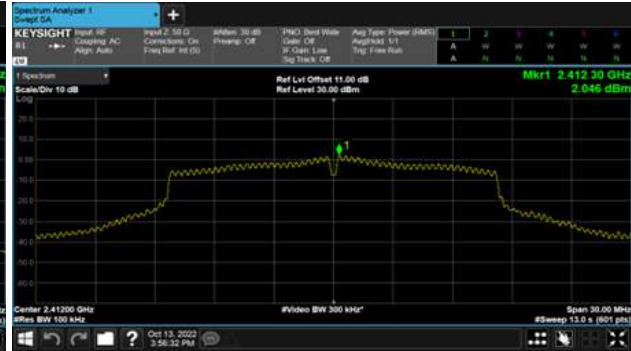
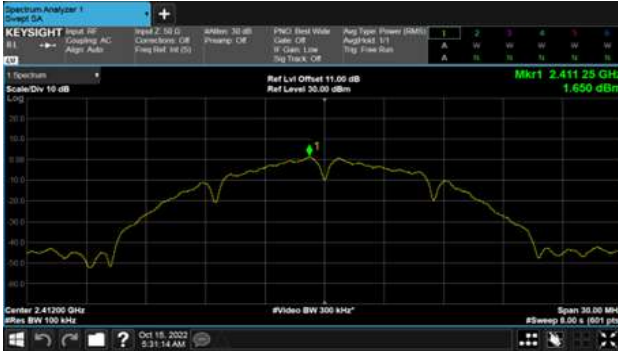
Beamforming

| Modulation Type | Channel | Frequency (MHz) | Maximum Power Density of 100KHz Bandwidth(dBm) | | Sum chain (dBm) | Duty Cycle CF(dB) | Total PSD (dBm) | Limit (dBm) |
|-----------------|---------|-----------------|--|--------|-----------------|-------------------|-----------------|-------------|
| | | | ANT 1 | ANT 2 | | | | |
| 11ax HE20 | 1 | 2412 | -6.807 | -7.419 | -4.09 | 0.16 | -3.93 | 7.25 |
| | 6 | 2437 | -7.219 | -6.16 | -3.65 | 0.16 | -3.49 | 7.25 |
| | 11 | 2462 | -7.978 | -8.018 | -4.99 | 0.16 | -4.83 | 7.25 |
| 11ax HE40 | 3 | 2422 | -8.869 | -9.588 | -6.20 | 0.13 | -6.07 | 7.25 |
| | 6 | 2437 | -6.951 | -8.4 | -4.61 | 0.13 | -4.48 | 7.25 |
| | 9 | 2452 | -8.076 | -7.574 | -4.81 | 0.13 | -4.68 | 7.25 |



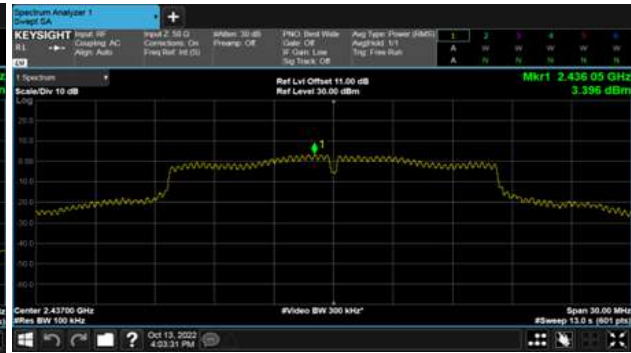
For 22090062-TRFCC01
Non BeamForming
ANT 1
Modulation Type: 802.11b
CH01

Modulation Type: 802.11g
CH01



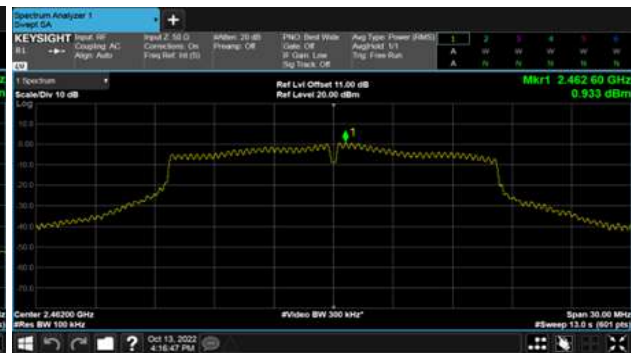
CH06

CH06



CH11

CH11





For 22090062-TRFCC01

Non BeamForming

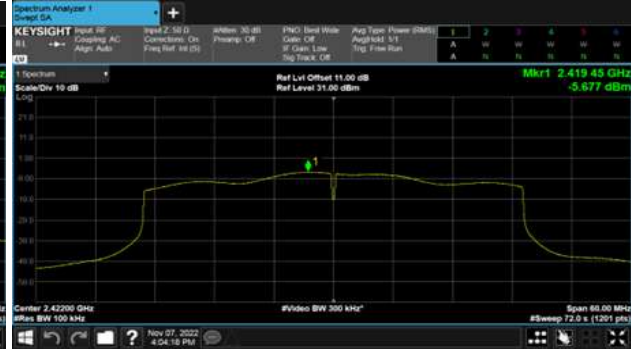
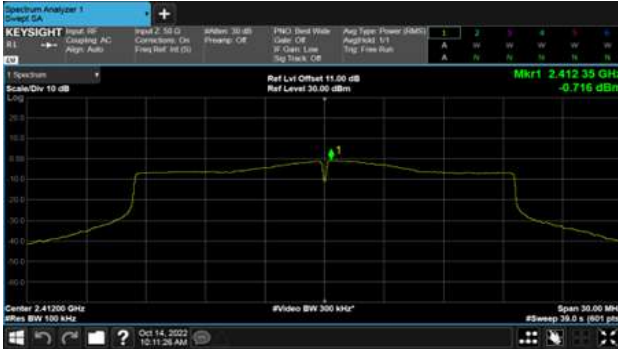
ANT 1

Modulation Type: 802.11ax HE20

CH01

Modulation Type: 802.11ax HE40

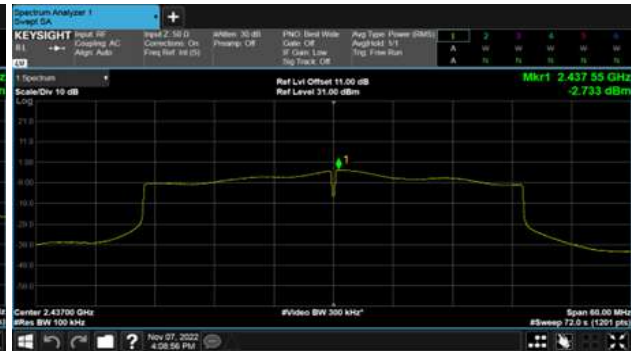
CH03



CH06



CH06



CH11



CH09





For 22090062-TRFCC01

Non BeamForming

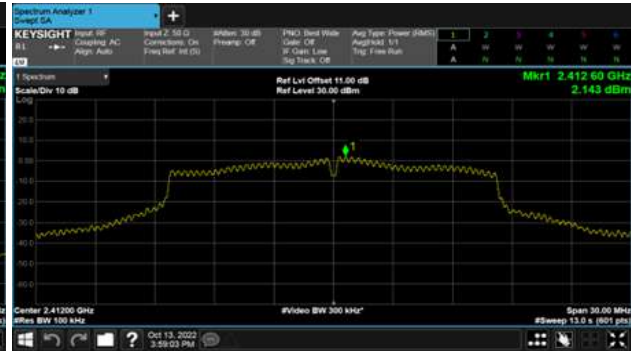
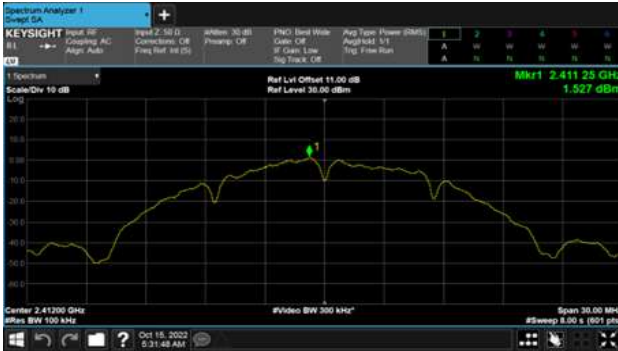
ANT 2

Modulation Type: 802.11b

CH01

Modulation Type: 802.11g

CH01



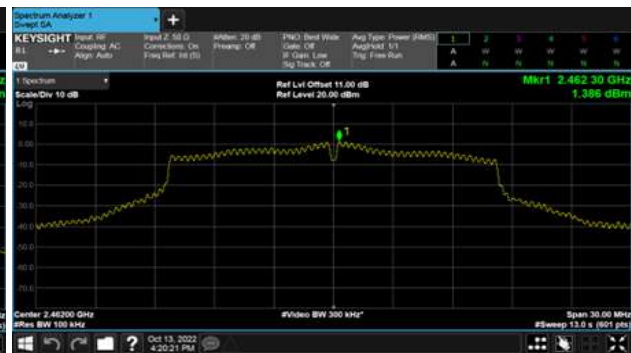
CH06

CH06



CH11

CH11





For 22090062-TRFCC01

Non BeamForming

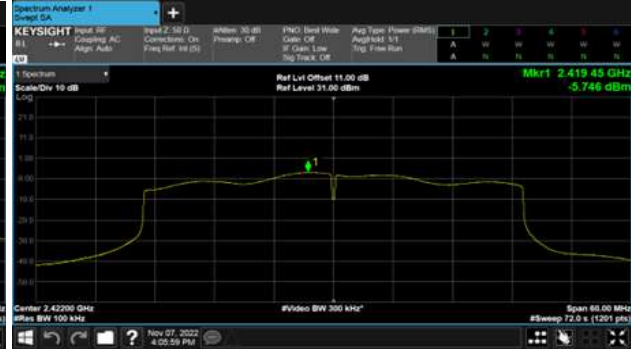
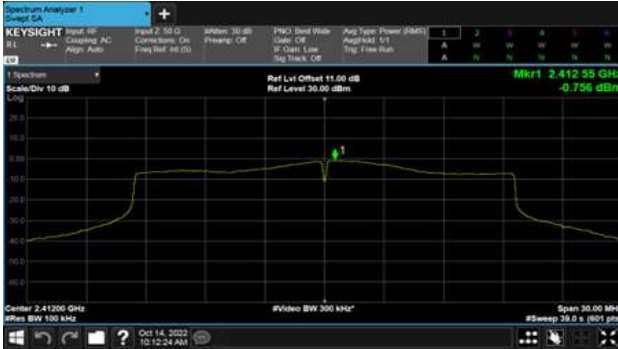
ANT 2

Modulation Type: 802.11ax HE20

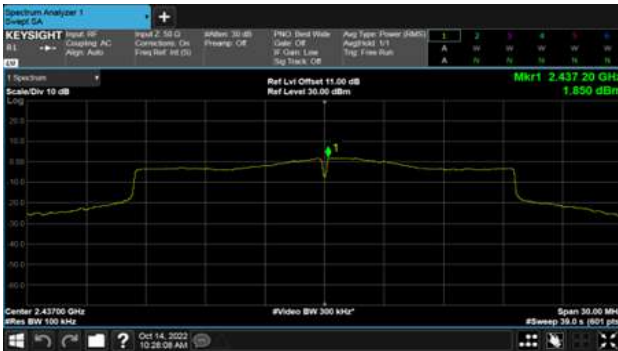
CH01

Modulation Type: 802.11ax HE40

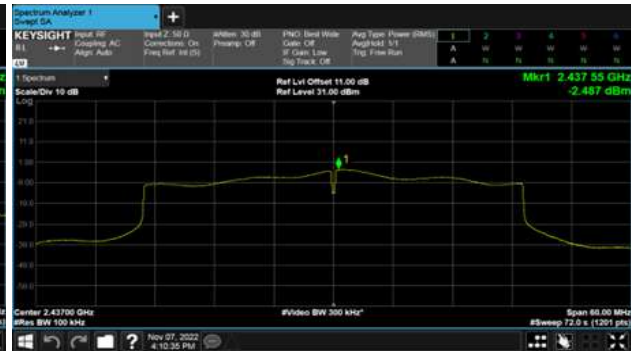
CH03



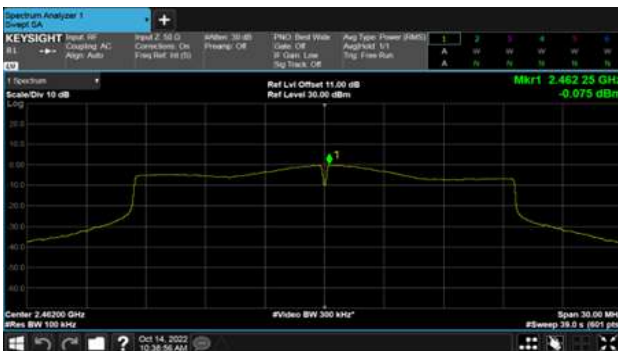
CH06



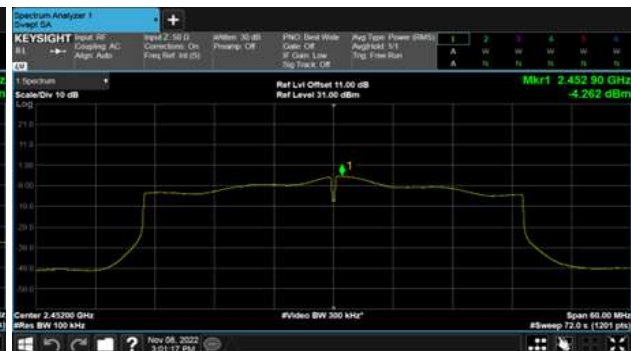
CH06



CH11



CH09





For 22090062-TRFCC01

BeamForming

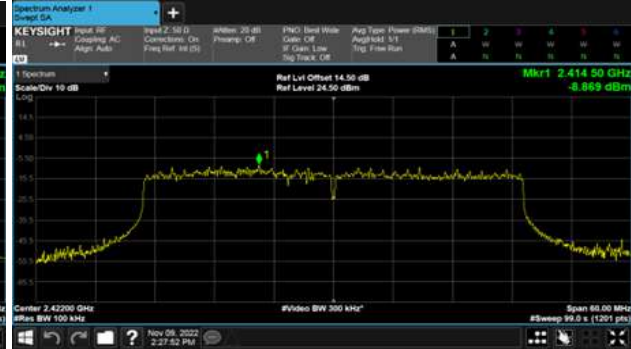
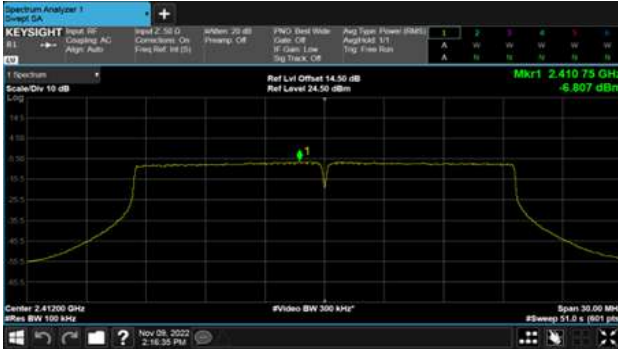
ANT 1

Modulation Type: 802.11ax HE20

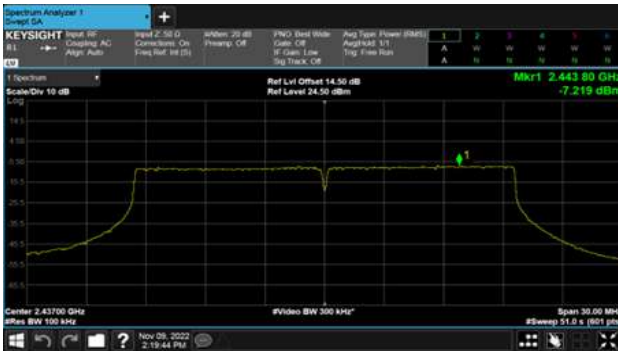
CH01

Modulation Type: 802.11ax HE40

CH03



CH06



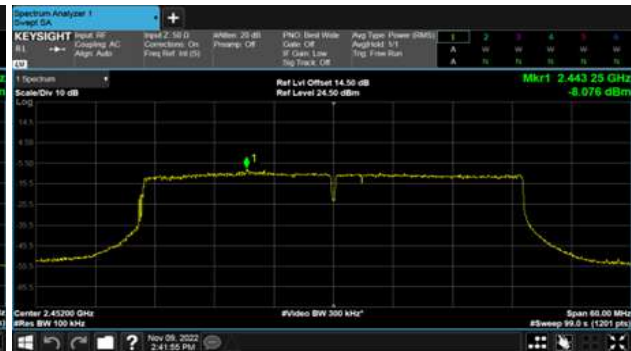
CH06



CH11



CH09





For 22090062-TRFCC01

BeamForming

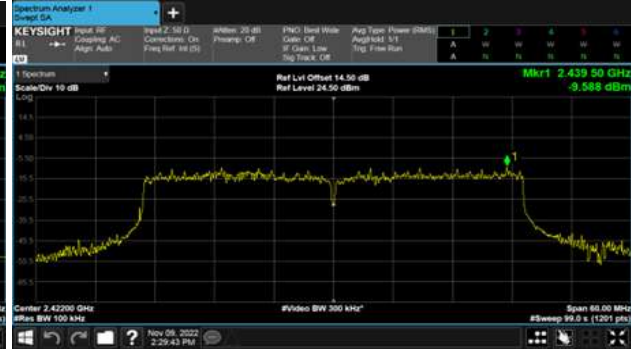
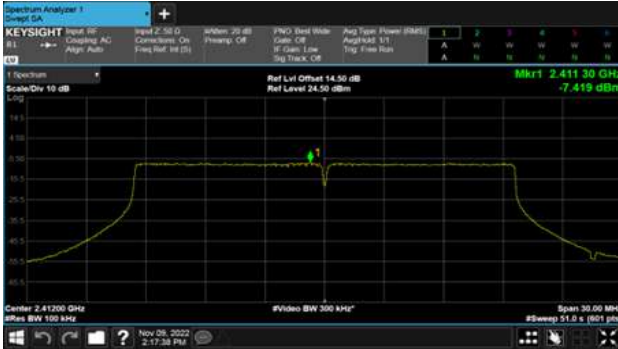
ANT 2

Modulation Type: 802.11ax HE20

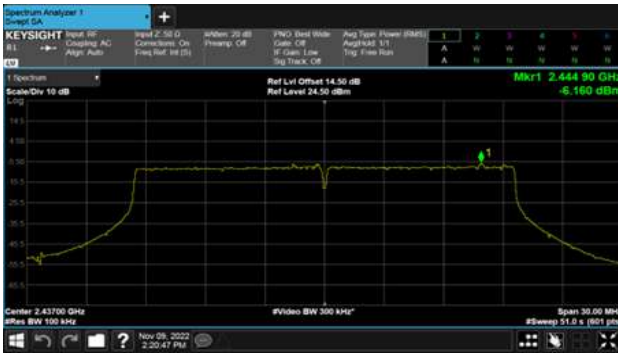
CH01

Modulation Type: 802.11ax HE40

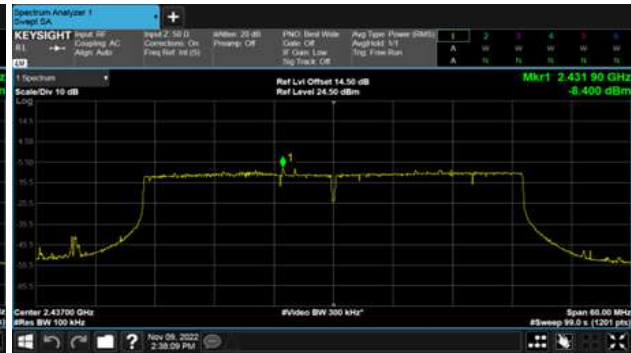
CH03



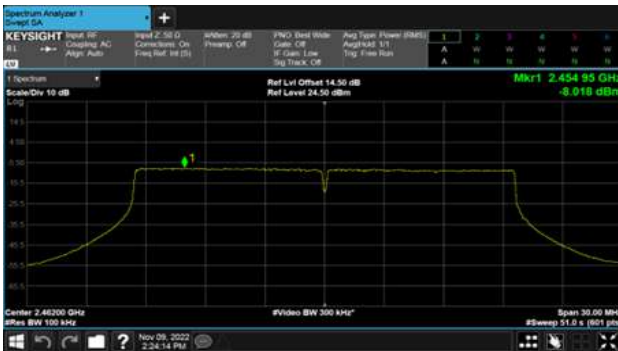
CH06



CH06



CH11



CH09

