



FCC RADIO TEST REPORT

Applicant : Altai Technologies Limited
Address : Unit 209, 2/F, Lakeside 2, 10 Science Park West Avenue, HK Science Park, Shatin Hong Kong
Equipment : Outdoor 2 x 2 Wi-Fi 6 Access Point
Model No. : AX600-X, AX600-S
Trade Name : ALTAI
FCC ID : UCC-AX600

I HEREBY CERTIFY THAT :

The sample was received on Apr. 25, 2023 and the testing was completed on Jun. 14, 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





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History of this test report

| Report No. | Issued Date | Description |
|------------------|---------------|-------------|
| 23040191-TRFCC02 | Jun. 26, 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 E §15.407

KDB 789033

| FCC Rule | Description of Test | Result |
|------------------------|----------------------------------|--------|
| 15.203 | Antenna Requirement | PASS |
| 15.207(a) | AC Power Line Conducted Emission | PASS |
| 15.407(b) 15.209 | Radiated Spurious Emission | PASS |
| 15.407(a) | 26 dB & Occupied Bandwidth | PASS |
| 15.407 | 6 dB Bandwidth | PASS |
| 15.407 (a) & (a)(3) | Average Power | PASS |
| 15.407(a) | 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.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(23040191-TEFV01).



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

| | |
|---------------------------|---|
| Operation Frequency Range | WLAN:802.11b/g/n/(Turbo QAM)/ax: 2400-2483.5MHz 5GHz:802.11a/n/ac/ax: 5150-5250MHz, 5725-5850MHz |
| Center Frequency Range | WLAN:802.11b/g/n/(Turbo QAM)/ax: 2412-2462MHz 5GHz :802.11a/n/ac/ax: 5180-5240MHz, 5745-5825MHz |
| Modulation Type | WLAN: 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 | WLAN: 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 | Omni Antenna Sector Antenna ALI22 Antenna |
| Antenna Gain | Omni(With cable loss) :2400-2500MHz:ANT A: 7.18dBi (Black), ANT B:7.49dBi (Gray) Sector(With cable loss) :2400-2500MHz: :ANT A:13.82dBi (Black), ANT B 14.13dBi (Gray) ALI22(With cable loss) :2400-2500MHz: :ANT A:13.88dBi, ANT B:13.82dBi Omni(With cable loss) :5150-5250MHz: ANT C:5.26dBi (Blue), ANT D:5.19dBi (White) Omni(With cable loss) :5725-5850MHz: ANT C: 5.26dBi (Blue), ANT D:5.19dBi (White) Sector(With cable loss):5150-5250MHz: ANT C:11.11dBi (Blue), ANT D:11.04dBi (White) Sector(With cable loss):5725-5850MHz: ANT C: 11.11dBi (Blue), ANT D:11.04dBi (White) ALI22(With cable loss) 5150-5250MHz: ANT C:12.24dBi, ANT D:12.01dBi ALI22(With cable loss) :5725-5850MHz: ANT C:12.24dBi, ANT D:12.01dBi |

Note:

1. WLAN 2.4G 802.11n Support TurboQAM.
2. EUT support TPC Function.
3. WLAN 2.4GHz & WLAN 5GHz 802.11ax support beamforming Function.
4. For more details, please refer to the User's manual of the EUT.

Difference description:

| Model No. | Remark |
|-----------|------------------|
| AX600-X | External antenna |
| AX600-S | Internal antenna |



2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|------------|----------------|------------|----------------|
| *36 | 5180 | 44 | 5220 |
| *40 | 5200 | *48 | 5240 |

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|------------|----------------|------------|----------------|
| *38 | 5190 | *46 | 5230 |

802.11ac VHT80 , 802.11ax HE80

| Channel | Frequency(MHz) |
|------------|----------------|
| *42 | 5210 |

Band: 5725MHz-5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|-------------|----------------|-------------|----------------|
| *149 | 5745 | 161 | 5805 |
| 153 | 5765 | *165 | 5825 |
| *157 | 5785 | | |

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|-------------|----------------|-------------|----------------|
| *151 | 5755 | *159 | 5795 |

802.11ac VHT80, 802.11ax HE80

| Channel | Frequency(MHz) |
|-------------|----------------|
| *155 | 5775 |

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 5.0-00202" under Windows OS system was executed to transmit and receive data via WLAN. (Non BeamForming)
- d. An executive program, " 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:

| Conducted Emissions from the AC mains power ports | |
|--|---|
| Test Mode | Operating Description |
| 1 | 802.11a (6Mbps) ,Power from PoE,Non BeamForming |
| 2 | 802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming |
| 3 | 802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming |
| 4 | 802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming |
| 5 | 802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming |
| 6 | 802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming |
| 7 | 802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming |
| caused "Test Mode 1,5" generated the worst case, it was reported as the final data. | |
| Radiation Emissions (BELOW 1GHz) | |
| Test Mode | Operating Description |
| 1 | 802.11a (6Mbps) ,Power from PoE,Non BeamForming |
| 2 | 802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming |
| 3 | 802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming |
| 4 | 802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming |
| 5 | 802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming |
| 6 | 802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming |
| 7 | 802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming |
| caused "Test Mode 2,5" generated the worst case, it was reported as the final data. | |
| Radiation Emissions (1GHz ~ 40GHz) | |
| Test Mode | Operating Description |
| 1 | 802.11a (6Mbps) ,Power from PoE,Non BeamForming |
| 2 | 802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming |
| 3 | 802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming |
| 4 | 802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming |
| 5 | 802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming |
| 6 | 802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming |
| 7 | 802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming |
| caused "Test Mode 1~7" 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 , AC 240V / 60Hz is worst case.
 For Radiation Emissions (BELOW 1GHz), AC 120V / 60Hz is worst case.(Non BeamForming)
 For Radiation Emissions (BELOW 1GHz), AC 240V / 60Hz is worst case.(BeamForming)

2.The EUT has three types of antenna(Omni and Sector and ALI22).
 AC Power Line Conducted Emission & Radiation Emissions(BELOW 1GHz) & Duty Cycle
 26 dB & 6 dB Bandwidth & Occupied Bandwidth
 After engineering evaluation, Omni are worst case, hence, are used at test report.



The EUT incorporates a MIMO function

| Modulation Type | TX CONFIGURATION |
|-----------------|------------------|
| 802.11a | 2TX |
| 802.11n HT20 | 2TX |
| 802.11n HT40 | 2TX |
| 802.11ac VHT20 | 2TX |
| 802.11ac VHT40 | 2TX |
| 802.11ac VHT80 | 2TX |
| 802.11ax HE20 | 2TX |
| 802.11ax HE40 | 2TX |
| 802.11ax HE80 | 2TX |



2.4. Description of Test System

Non BeamForming

| RF Conducted | | | | |
|----------------------------------|-----------------|--------------|-------------|------------------------|
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | lenovo | S1GL2W | N/A | Adapter / 1.8m / NS |
| RJ45 Cable*2 | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| POE | UBIQUITI | GP-H480-050G | N/A | 0.6m / NS |
| Radiated Emissions | | | | |
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| RJ45 Cable | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| POE | PowerDsine | PD-9001GR | N/A | N/A |
| RJ45 Cable | N/A | N/A | 15m / 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 |
| POE | Bluewave | JS-100GT | 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*4 | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| POE*2 | UBIQUITI | GP-H480-050G | N/A | 0.6m / NS |
| Radiated Emissions | | | | |
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| RJ45 Cable*3 | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| POE | PowerDsine | PD-9001GR | N/A | N/A |
| POE | Bluewave | JS-100GT | N/A | N/A |
| RJ45 Cable | TE CONNECTIVITY | CAT5E | 15m / 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 |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| RJ45 Cable*4 | TE CONNECTIVITY | CAT5E | 1.2m / NS | N/A |
| POE | Bluewave | JS-100GT | N/A | N/A |
| POE | PowerDsine | PD-9001GR | N/A | N/A |

**2.5. General Information of Test**

| | | |
|-------------------------------|--|--|
| Test Site | Cerpass 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 |
| | VCCI | T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz |
| Frequency Range Investigated: | Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz | |
| Test Distance: | The test distance of radiated emission from antenna to EUT is 3 M. | |

Non BeamForming
Omni Antenna

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|-------------------------------------|------------|---------------------|--------------------------|---------------|
| RF Conducted | RFCON01-NK | 2023/5/5~2023/5/25 | 24.9~27.8°C / 47~59% | Leon Huang |
| Radiated Emissions | 3M02-NK | 2023/5/17~2023/5/29 | 26~27°C / 32~35% | Leon Huang |
| AC Power Line Conducted Emission | CON02-NK | 2023/06/14 | 26.5°C / 48% | Leon Huang |

Sector Antenna

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|--------------------|------------|---------------------|--------------------------|---------------|
| RF Conducted | RFCON01-NK | 2023/5/24~2023/5/26 | 26~26.7°C / 55~59% | Leon Huang |
| Radiated Emissions | 3M02-NK | 2023/5/20~2023/6/14 | 23~25°C / 30~39% | Leon Huang |

ALI22 Antenna

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|--------------------|------------|---------------------|--------------------------|---------------|
| RF Conducted | RFCON01-NK | 2023/5/24~2023/5/26 | 26~27.8°C / 55~59% | Leon Huang |
| Radiated Emissions | 3M02-NK | 2023/5/10~2023/5/19 | 21~25°C / 35~39% | Leon Huang |



BeamForming
Omni Antenna

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|-------------------------------------|------------|---------------------|--------------------------|---------------|
| RF Conducted | RFCON01-NK | 2023/5/19~2023/5/25 | 26.8~27.8°C / 52~59% | Leon Huang |
| Radiated Emissions | 3M02-NK | 2023/05/18 | 26°C / 39% | Leon Huang |
| AC Power Line Conducted Emission | CON02-NK | 2023/06/14 | 26.5°C / 48% | Leon Huang |

Sector Antenna

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|--------------------|------------|---------------------|--------------------------|---------------|
| RF Conducted | RFCON02-NK | 2023/5/25~2023/5/26 | 26.7~27.8°C / 52~59% | Leon Huang |
| Radiated Emissions | 3M02-NK | 2023/5/23~2023/6/14 | 21~25°C / 31~39% | Leon Huang |

ALI22 Antenna

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|--------------------|------------|---------------------|--------------------------|---------------|
| RF Conducted | RFCON02-NK | 2023/5/23~2023/5/26 | 26.7~27.8°C / 46~59% | Leon Huang |
| Radiated Emissions | 3M02-NK | 2023/05/22 | 27°C / 33% | Leon Huang |



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))

| 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 |
| Radiated Spurious Emission(1GHz~40GHz) | ±5.2dB |
| 6dB Bandwidth | ±5.4% |
| 26dB Bandwidth | ±4.4% |
| Occupied Bandwidth | ±4.5% |
| Peak Output Power(Conducted Power Meter) | ±1.1dB |
| Power Spectral Density | ±2.0dB |
| Duty Cycle | ±3.5% |
| Frequency Stability | ±0.23KHz |



3. Test Equipment and Ancillaries Used for Tests

| 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 | 2022/07/05 | 2023/07/04 |
| Spectrum Analyzer | ROHDE & SCHWARZ | FSV 40-N | 102151 | 2022/08/19 | 2023/08/18 |
| 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-4m(9k-3G) | EMEC | RG-223 | 18274M | 2022/07/27 | 2023/07/26 |
| 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-0.5m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | 28420/2 | 2023/03/07 | 2024/03/06 |
| Cable-3m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | MY2608/2 | 2023/03/07 | 2024/03/06 |
| Cable-0.5m(1G-40G) | Rapidtek | 40GHZ 50CM | 38MS-38MS5 0314 | 2023/03/07 | 2024/03/06 |
| Cable-3m(1G-40G) | Rapidtek | 40GHZ 300CM | 38MS-38MS3 00314 | 2023/03/07 | 2024/03/06 |
| Highpass Filter | WOKEN | WFIL-H7000-18000F-01 | WR468FWC2 B1 | 2022/09/01 | 2023/08/31 |
| 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 | 2022/11/29 | 2023/11/28 |
| Power Meter | Anritsu | ML2495A | 1224005 | 2023/03/07 | 2024/03/06 |
| Power Sensor | Anritsu | MA2411B | 1207295 | 2023/03/07 | 2024/03/06 |
| Attenuator | KEYSIGHT | 8491B | MY39250703 | 2023/03/08 | 2024/03/07 |



| | | | | | |
|-----------------------|----------------------------------|-----------------|------------------|-------------------------|-------------------|
| 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 | 2022/07/05 | 2023/07/04 |
| TWO-LINE V-NETWORK | ROHDE & SCHWARZ | ENV216 | 102185 | 2022/08/24 | 2023/08/23 |
| Cable-4m(9k-3G) | EMEC | RG-223 | 18274M | 2022/07/27 | 2023/07/26 |
| E3 | AUDIX | v8.2014-8-6 | RK-000536 | 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 15.407 (a), 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 | Omni Antenna Sector Antenna ALI22 Antenna |
| Antenna Gain | Omni(With cable loss) :5150-5250MHz: ANT C:5.26dBi (Blue), ANT D:5.19dBi (White) Omni(With cable loss) :5725-5850MHz: ANT C: 5.26dBi (Blue), ANT D:5.19dBi (White) Sector(With cable loss):5150-5250MHz: ANT C:11.11dBi (Blue), ANT D:11.04dBi (White) Sector(With cable loss):5725-5850MHz: ANT C: 11.11dBi (Blue), ANT D:11.04dBi (White) ALI22(With cable loss) 5150-5250MHz: ANT C:12.24dBi, ANT D:12.01dBi ALI22(With cable loss) :5725-5850MHz: ANT C:12.24dBi, ANT D:12.01dBi |

(Non-Beamforming)

Omni Antenna

5150-5250MHz &5725-5850MHz:

For Power directional gain= $G_{ant}= 5.26$ (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 8.24 (dBi)

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

Sector Antenna

5150-5250MHz &5725-5850MHz:

For Power directional gain= $G_{ant}= 11.11$ (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 14.09 (dBi)

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

ALI22 Antenna

5150-5250MHz &5725-5850MHz:

For Power directional gain= $G_{ant}= 12.24$ (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 15.14 (dBi)

MIMO type: Cyclic Delay Diversity (CDD) mode.



(Beamforming)

Omni Antenna

5150-5250MHz &5725-5850MHz:

For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 8.24 \text{ (dBi)}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 8.24 \text{ (dBi)}$

Sector Antenna

5150-5250MHz &5725-5850MHz:

For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 14.09 \text{ (dBi)}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 14.09 \text{ (dBi)}$

ALI22 Antenna

5150-5250MHz &5725-5850MHz:

For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 15.14 \text{ (dBi)}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 15.14 \text{ (dBi)}$



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 |

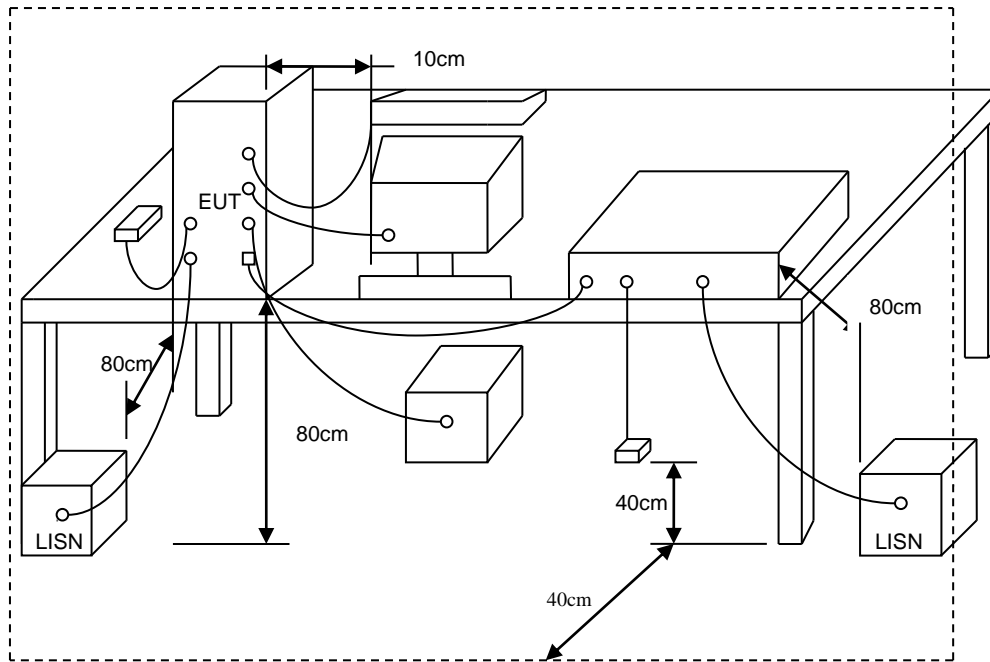
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

- 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.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



5.3. Typical Test Setup

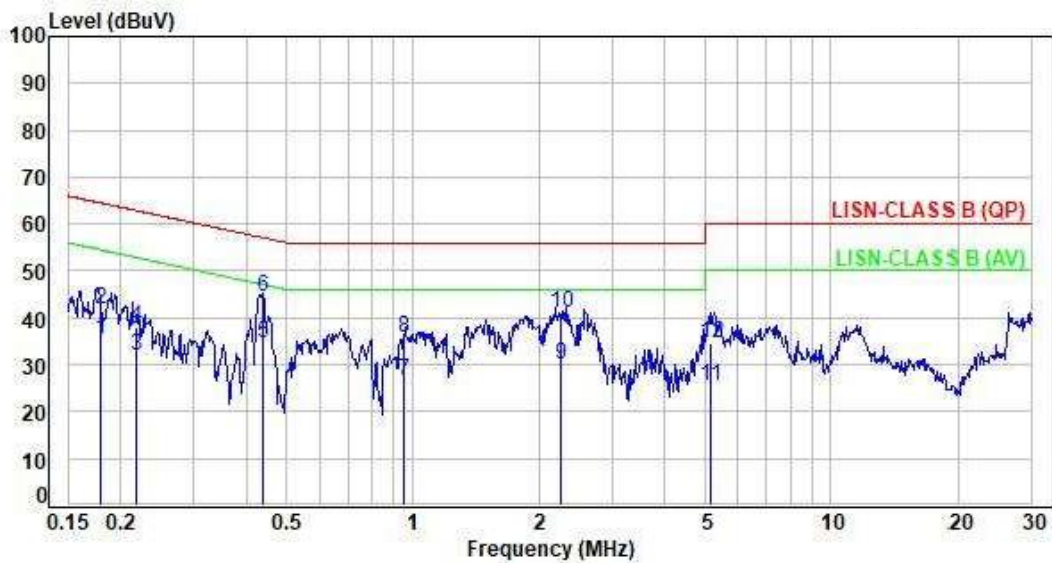




5.4. Test Result and Data

Non BeamForming

| | | | | | |
|-----------|---|-------------------------|-----------|---|------|
| Power | : | From PoE (240V/60Hz) | Pol/Phase | : | LINE |
| Test Mode | : | Mode 1 | | : | |



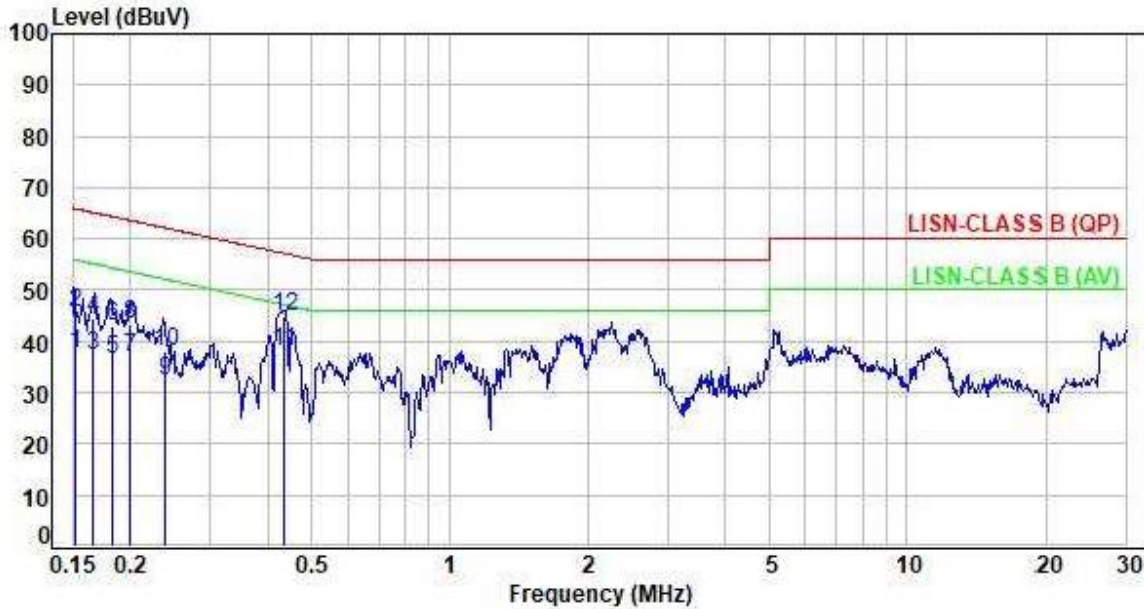
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.18 | 9.61 | 25.92 | 35.53 | 54.52 | -18.99 | Average | P |
| 2 | 0.18 | 9.61 | 32.29 | 41.90 | 64.52 | -22.62 | QP | P |
| 3 | 0.22 | 9.61 | 22.47 | 32.08 | 52.90 | -20.82 | Average | P |
| 4 | 0.22 | 9.61 | 28.45 | 38.06 | 62.90 | -24.84 | QP | P |
| 5 | 0.44 | 9.63 | 25.16 | 34.79 | 47.08 | -12.29 | Average | P |
| 6 | 0.44 | 9.63 | 34.70 | 44.33 | 57.08 | -12.75 | QP | P |
| 7 | 0.95 | 9.65 | 16.91 | 26.56 | 46.00 | -19.44 | Average | P |
| 8 | 0.95 | 9.65 | 25.97 | 35.62 | 56.00 | -20.38 | QP | P |
| 9 | 2.25 | 9.70 | 20.15 | 29.85 | 46.00 | -16.15 | Average | P |
| 10 | 2.25 | 9.70 | 31.33 | 41.03 | 56.00 | -14.97 | QP | P |
| 11 | 5.17 | 9.77 | 15.53 | 25.30 | 50.00 | -24.70 | Average | P |
| 12 | 5.17 | 9.77 | 24.92 | 34.69 | 60.00 | -25.31 | QP | P |

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



Non BeamForming

| | | | | | |
|-----------|---|----------------------|-----------|---|---------|
| Power | : | From PoE (240V/60Hz) | Pol/Phase | : | NEUTRAL |
| Test Mode | : | Mode 1 | | : | |



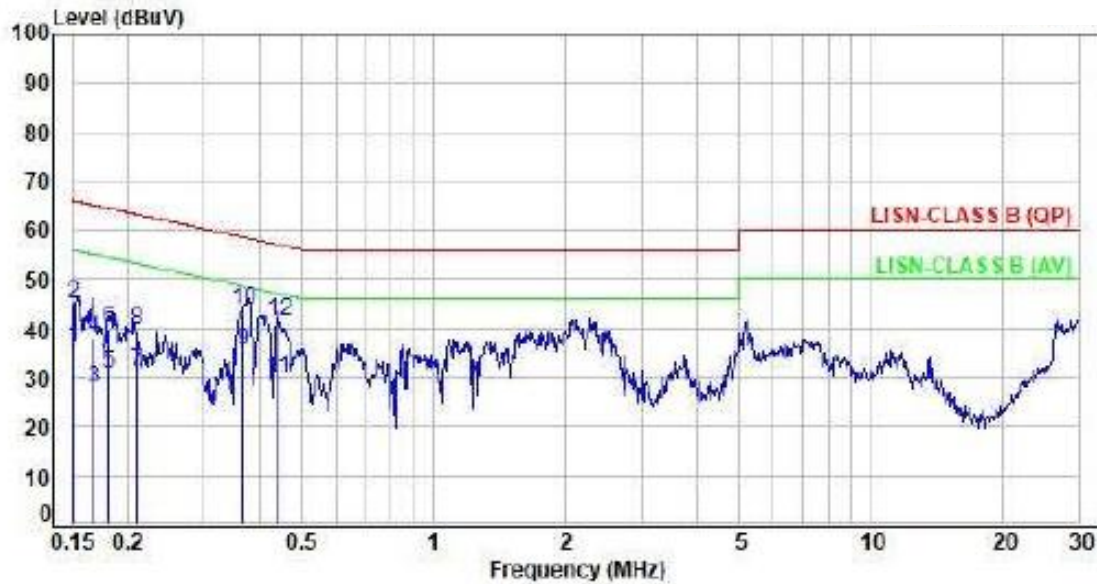
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.15 | 9.63 | 27.87 | 37.50 | 55.89 | -18.39 | Average | P |
| 2 | 0.15 | 9.63 | 35.97 | 45.60 | 65.89 | -20.29 | QP | P |
| 3 | 0.17 | 9.63 | 27.82 | 37.45 | 55.20 | -17.75 | Average | P |
| 4 | 0.17 | 9.63 | 34.70 | 44.33 | 65.20 | -20.87 | QP | P |
| 5 | 0.18 | 9.62 | 27.06 | 36.68 | 54.31 | -17.63 | Average | P |
| 6 | 0.18 | 9.62 | 33.48 | 43.10 | 64.31 | -21.21 | QP | P |
| 7 | 0.20 | 9.62 | 27.30 | 36.92 | 53.61 | -16.69 | Average | P |
| 8 | 0.20 | 9.62 | 33.87 | 43.49 | 63.61 | -20.12 | QP | P |
| 9 | 0.24 | 9.63 | 22.62 | 32.25 | 52.15 | -19.90 | Average | P |
| 10 | 0.24 | 9.63 | 28.33 | 37.96 | 62.15 | -24.19 | QP | P |
| 11 | 0.43 | 9.63 | 28.36 | 37.99 | 47.19 | -9.20 | Average | P |
| 12 | 0.43 | 9.63 | 35.17 | 44.80 | 57.19 | -12.39 | QP | P |

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



BeamForming

| | | | | | |
|-----------|---|----------------------|-----------|---|------|
| Power | : | From PoE (240V/60Hz) | Pol/Phase | : | LINE |
| Test Mode | : | Mode 5 | | : | |



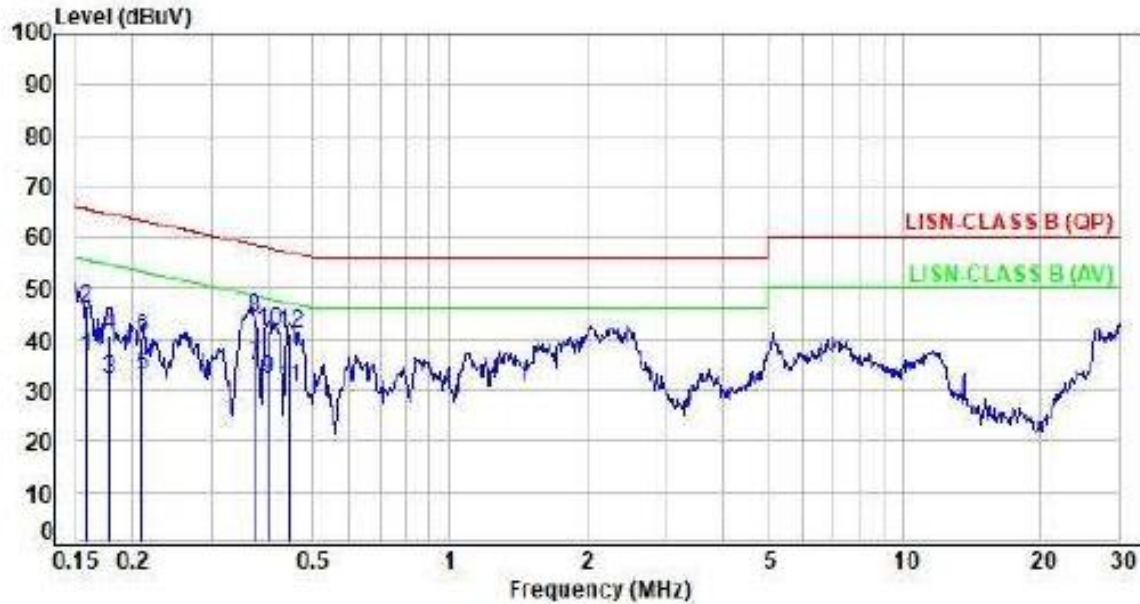
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV) | Limit (dBUV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.15 | 9.62 | 26.58 | 36.12 | 55.95 | -19.83 | Average | P |
| 2 | 0.15 | 9.62 | 35.22 | 44.84 | 65.95 | -21.11 | QP | P |
| 3 | 0.17 | 9.62 | 18.16 | 27.78 | 55.11 | -27.33 | Average | P |
| 4 | 0.17 | 9.62 | 28.30 | 37.92 | 65.11 | -27.19 | QP | P |
| 5 | 0.18 | 9.61 | 21.18 | 30.79 | 54.47 | -23.68 | Average | P |
| 6 | 0.18 | 9.61 | 30.21 | 39.82 | 64.47 | -24.65 | QP | P |
| 7 | 0.21 | 9.61 | 21.52 | 31.13 | 53.19 | -22.06 | Average | P |
| 8 | 0.21 | 9.61 | 29.96 | 39.57 | 63.19 | -23.62 | QP | P |
| 9 | 0.37 | 9.63 | 25.73 | 35.36 | 48.54 | -13.18 | Average | P |
| 10 | 0.37 | 9.63 | 34.22 | 43.85 | 58.54 | -14.69 | QP | P |
| 11 | 0.44 | 9.63 | 28.85 | 38.48 | 47.83 | -17.35 | Average | P |
| 12 | 0.44 | 9.63 | 31.74 | 41.37 | 57.83 | -15.66 | QP | P |

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



BeamForming

| | | | | | |
|-----------|---|----------------------|-----------|---|---------|
| Power | : | From PoE (240V/60Hz) | Pol/Phase | : | NEUTRAL |
| Test Mode | : | Mode 5 | | : | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.16 | 9.63 | 26.95 | 36.58 | 55.58 | -19.00 | Average | P |
| 2 | 0.16 | 9.63 | 36.39 | 46.02 | 65.58 | -19.56 | QP | P |
| 3 | 0.18 | 9.62 | 22.36 | 31.98 | 54.63 | -22.65 | Average | P |
| 4 | 0.18 | 9.62 | 31.14 | 40.76 | 64.63 | -23.87 | QP | P |
| 5 | 0.21 | 9.62 | 23.14 | 32.76 | 53.23 | -20.47 | Average | P |
| 6 | 0.21 | 9.62 | 30.74 | 40.36 | 63.23 | -22.87 | QP | P |
| 7 | 0.37 | 9.63 | 24.68 | 34.51 | 48.51 | -14.00 | Average | P |
| 8 | 0.37 | 9.63 | 34.50 | 44.13 | 58.51 | -14.38 | QP | P |
| 9 | 0.40 | 9.63 | 22.16 | 31.79 | 47.93 | -16.14 | Average | P |
| 10 | 0.40 | 9.63 | 31.98 | 41.61 | 57.93 | -16.32 | QP | P |
| 11 | 0.44 | 9.63 | 20.81 | 30.44 | 47.01 | -16.57 | Average | P |
| 12 | 0.44 | 9.63 | 31.58 | 41.21 | 57.01 | -15.80 | QP | P |

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



6. Test of Spurious Emission (Radiated)

6.1. Test Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.



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.

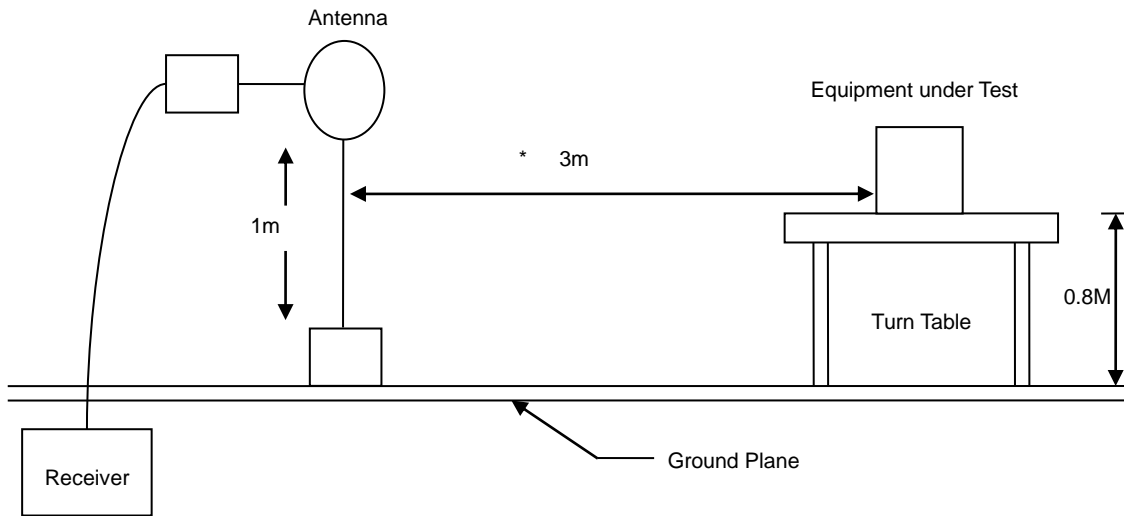
Non BeamForming-(Y-AXIS is the worst.)
BeamForming-(Y-AXIS is the worst.)

- 2.Due to the test software function limit the operation band setting(200dBuV/m). There's no corresponding limitation in the actual test item.

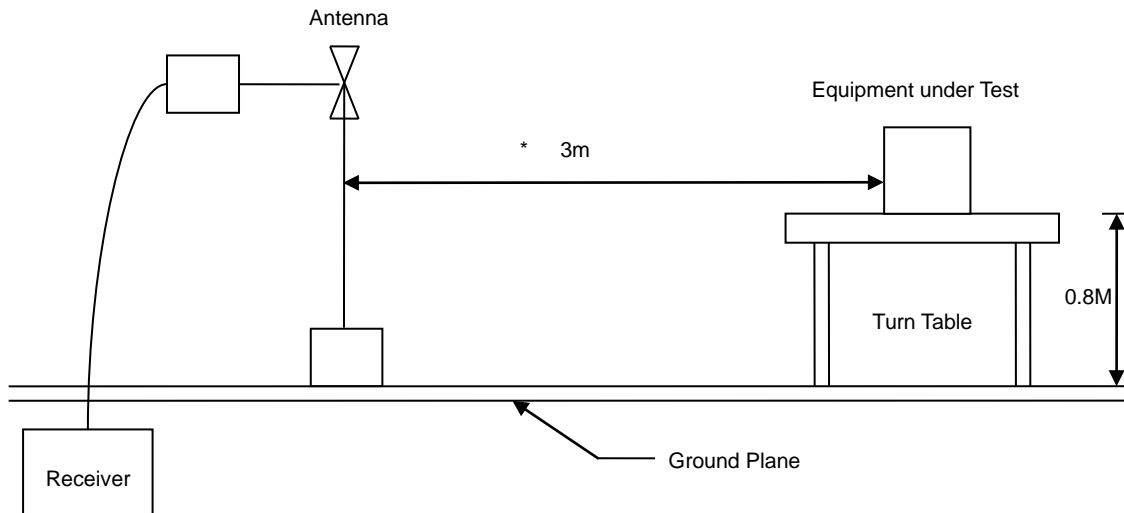


6.3. Typical Test Setup

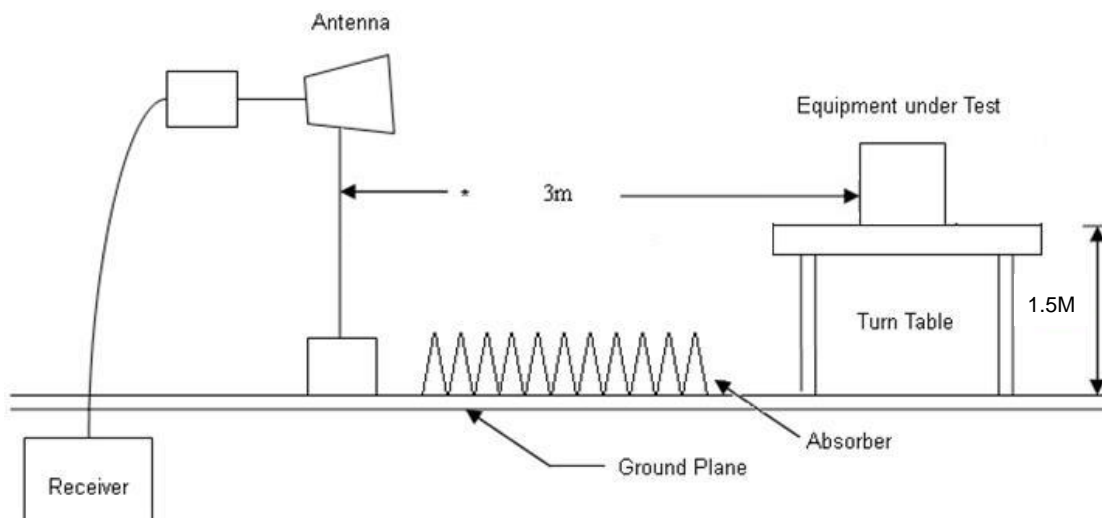
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





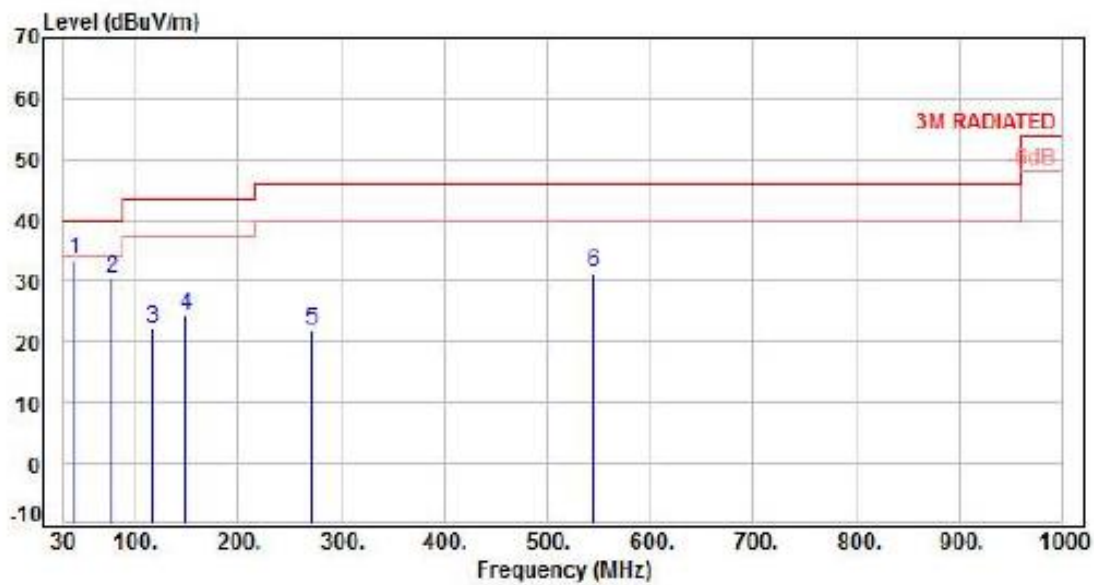
6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

Non BeamForming

| | | | | | |
|-----------|---|-------------------------|-----------|---|------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | LINE |
| Test Mode | : | Mode 2 | | : | |



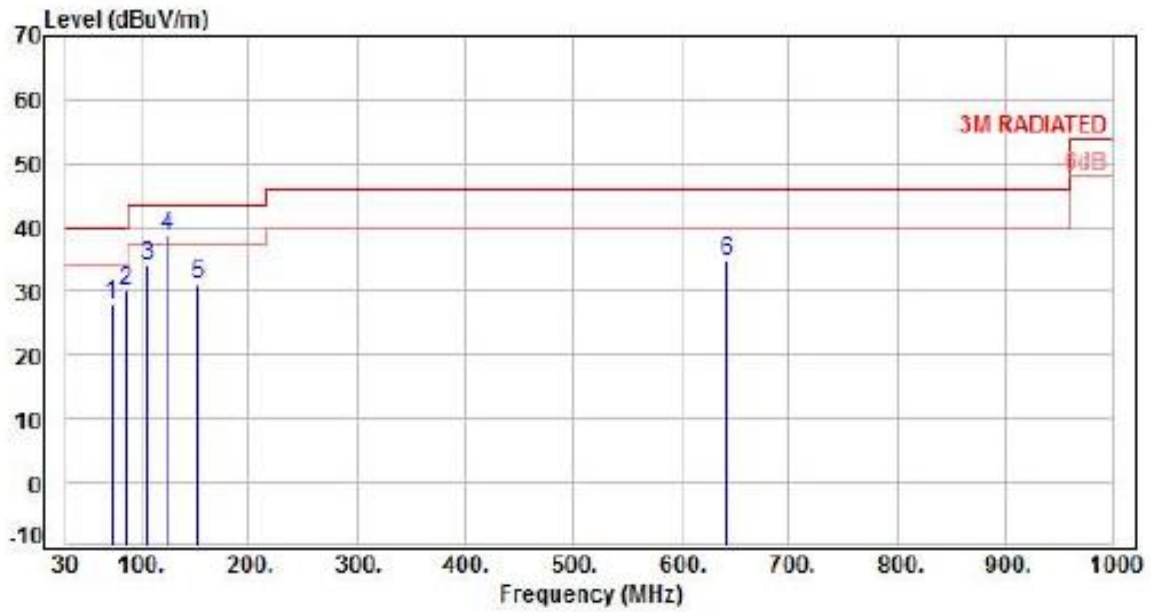
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 41.32 | -11.20 | 44.60 | 33.40 | 40.00 | -6.60 | QP | 100 | 234 | P |
| 2 | 76.56 | -14.68 | 45.03 | 30.35 | 40.00 | -9.65 | Peak | 400 | 0 | P |
| 3 | 117.30 | -13.52 | 35.85 | 22.33 | 43.50 | -21.17 | Peak | 400 | 0 | P |
| 4 | 148.34 | -10.86 | 35.22 | 24.36 | 43.50 | -19.14 | Peak | 400 | 0 | P |
| 5 | 270.56 | -11.16 | 33.23 | 22.07 | 46.00 | -23.93 | Peak | 400 | 0 | P |
| 6 | 544.10 | -4.29 | 35.66 | 31.37 | 46.00 | -14.63 | Peak | 400 | 0 | P |

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



Non BeamForming

| | | | |
|-----------|------------------------|-----------|-----------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : NEUTRAL |
| 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 | 72.68 | -13.80 | 41.74 | 27.94 | 40.00 | -12.06 | Peak | 400 | 360 | P |
| 2 | 86.25 | -16.87 | 47.03 | 30.16 | 40.00 | -9.84 | Peak | 400 | 360 | P |
| 3 | 105.66 | -14.75 | 48.79 | 34.04 | 43.50 | -9.46 | Peak | 400 | 360 | P |
| 4 | 123.12 | -13.20 | 51.96 | 38.76 | 43.50 | -4.74 | Peak | 400 | 360 | P |
| 5 | 152.22 | -10.72 | 41.76 | 31.04 | 43.50 | -12.46 | Peak | 400 | 360 | P |
| 6 | 641.10 | -1.96 | 36.77 | 34.81 | 46.00 | -11.19 | Peak | 400 | 360 | P |

Note: Level=Reading+Factor

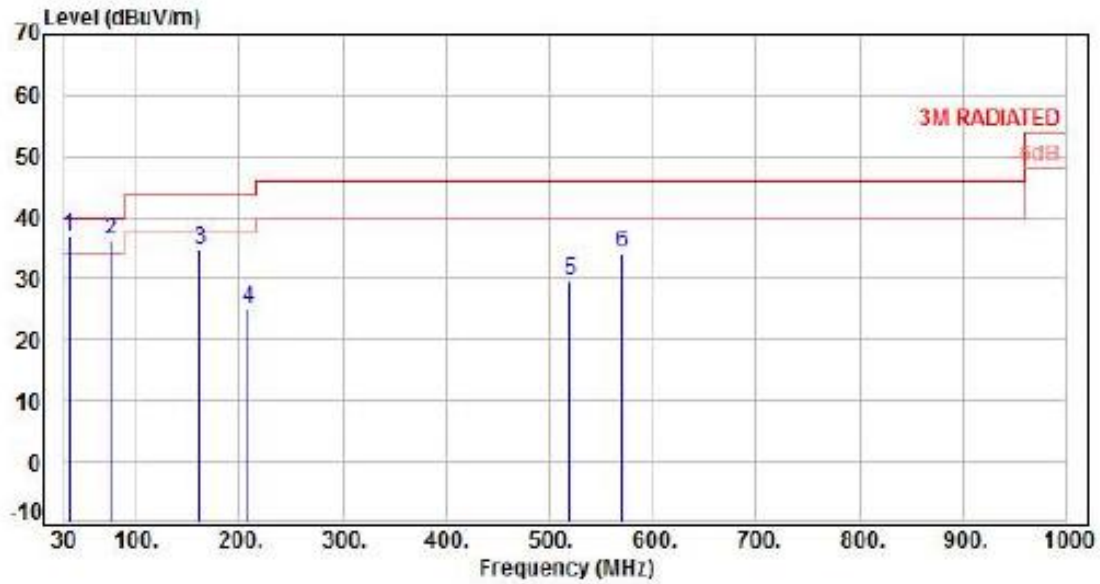
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming

| | | | |
|-----------|------------------------|-----------|--------|
| Power | : From PoE (240V/60Hz) | Pol/Phase | : LINE |
| Test Mode | : Mode 5 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 34.88 | -11.88 | 48.81 | 36.93 | 40.00 | -3.07 | QP | 100 | 360 | P |
| 2 | 74.62 | -14.18 | 50.55 | 36.37 | 40.00 | -3.63 | Peak | 400 | 360 | P |
| 3 | 161.92 | -11.09 | 45.81 | 34.72 | 43.50 | -8.78 | Peak | 400 | 360 | P |
| 4 | 208.48 | -14.03 | 39.14 | 25.11 | 43.50 | -18.39 | Peak | 400 | 360 | P |
| 5 | 518.88 | -4.59 | 34.25 | 29.66 | 46.00 | -16.34 | Peak | 400 | 360 | P |
| 6 | 569.32 | -3.63 | 37.76 | 34.13 | 46.00 | -11.87 | Peak | 400 | 360 | P |

Note: Level=Reading+Factor

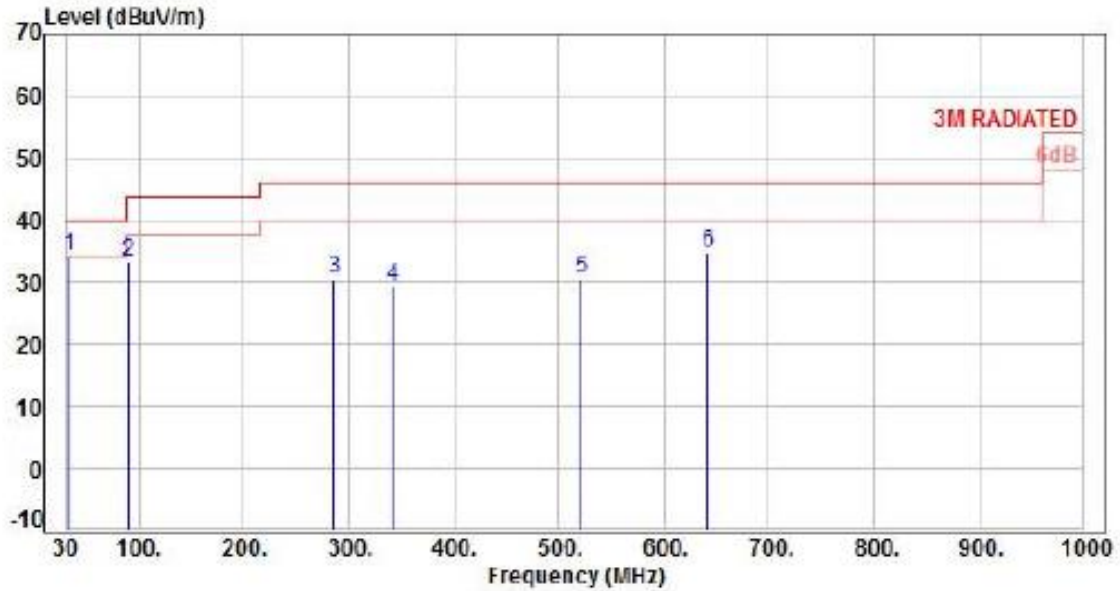
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming

| | | | |
|-----------|------------------------|-----------|-----------|
| Power | : From PoE (240V/60Hz) | Pol/Phase | : NEUTRAL |
| Test Mode | : Mode 5 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 34.85 | -11.89 | 46.07 | 34.18 | 40.00 | -5.82 | Peak | 400 | 360 | P |
| 2 | 90.14 | -16.76 | 50.01 | 33.25 | 43.50 | -10.25 | Peak | 400 | 360 | P |
| 3 | 286.08 | -10.51 | 40.94 | 30.43 | 46.00 | -15.57 | Peak | 400 | 360 | P |
| 4 | 342.34 | -8.96 | 38.11 | 29.15 | 46.00 | -16.85 | Peak | 400 | 360 | P |
| 5 | 520.82 | -4.61 | 34.97 | 30.36 | 46.00 | -15.64 | Peak | 400 | 360 | P |
| 6 | 641.10 | -1.96 | 36.53 | 34.57 | 46.00 | -11.43 | Peak | 400 | 360 | P |

Note: Level=Reading+Factor

Margin=Level-Limit

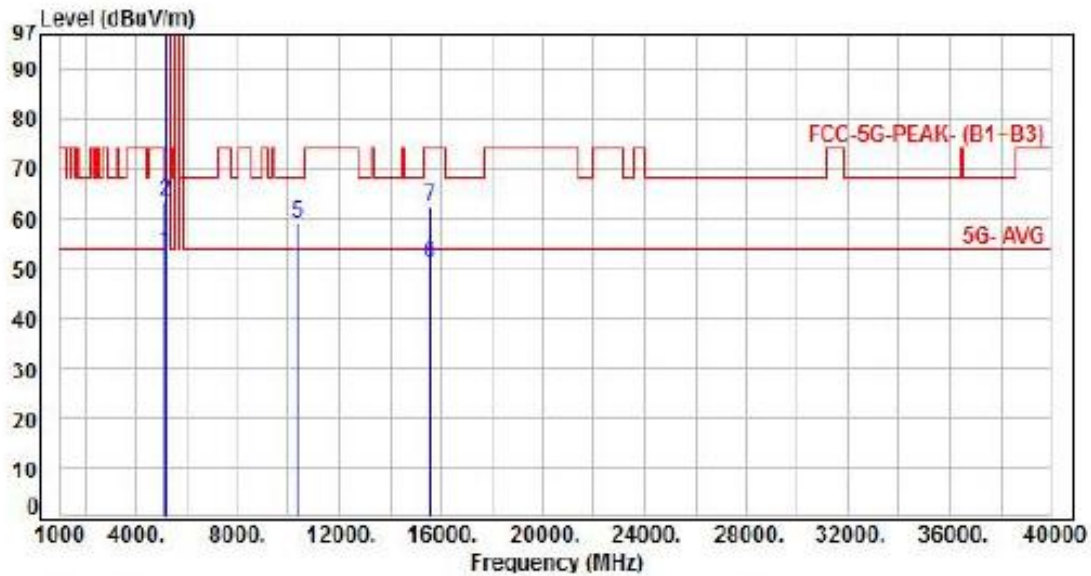
Factor=Antenna Factor + cable loss - Amplifier Factor



6.6. Test Result and Data (1GHz ~ 40GHz)

Non BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, Band 1, CH36 | | : |



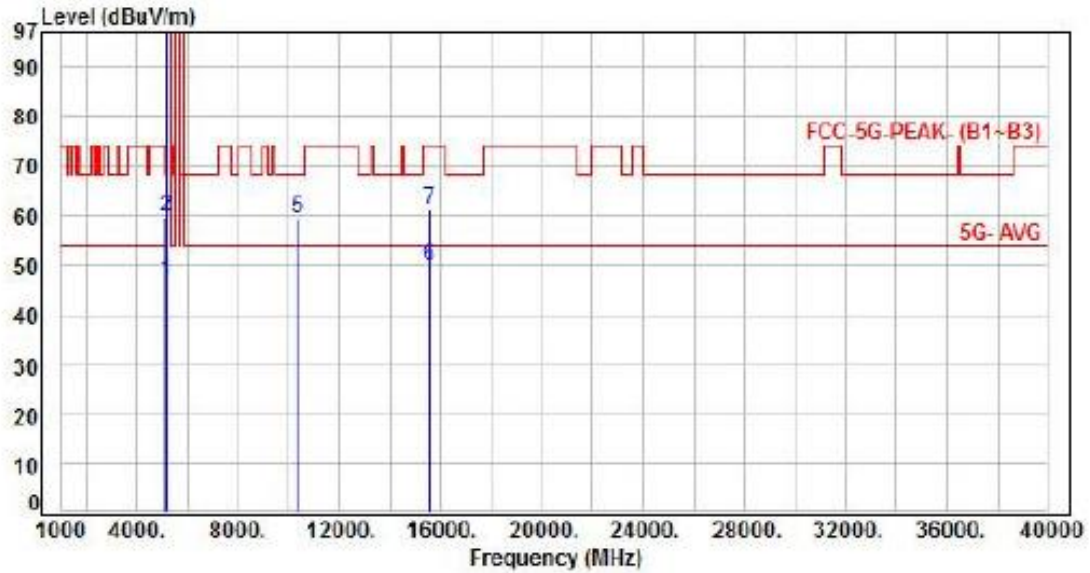
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 46.24 | 52.94 | 54.00 | -1.06 | Average | 152 | 318 | P |
| 2 | 5150.00 | 6.70 | 56.88 | 63.58 | 74.00 | -10.42 | Peak | 152 | 318 | P |
| 3 | 5180.00 | 6.85 | 107.29 | 114.14 | 200.00 | -85.86 | Average | 152 | 318 | P |
| 4 | 5180.00 | 6.85 | 117.39 | 124.24 | 200.00 | -75.76 | Peak | 152 | 318 | P |
| 5 | 10360.00 | 15.84 | 43.01 | 58.85 | 68.20 | -9.35 | Peak | 100 | 289 | P |
| 6 | 15540.00 | 19.60 | 31.31 | 50.91 | 54.00 | -3.09 | Average | 100 | 145 | P |
| 7 | 15540.00 | 19.60 | 42.57 | 62.17 | 74.00 | -11.83 | Peak | 100 | 145 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 1, Band 1, CH36 | | : | |



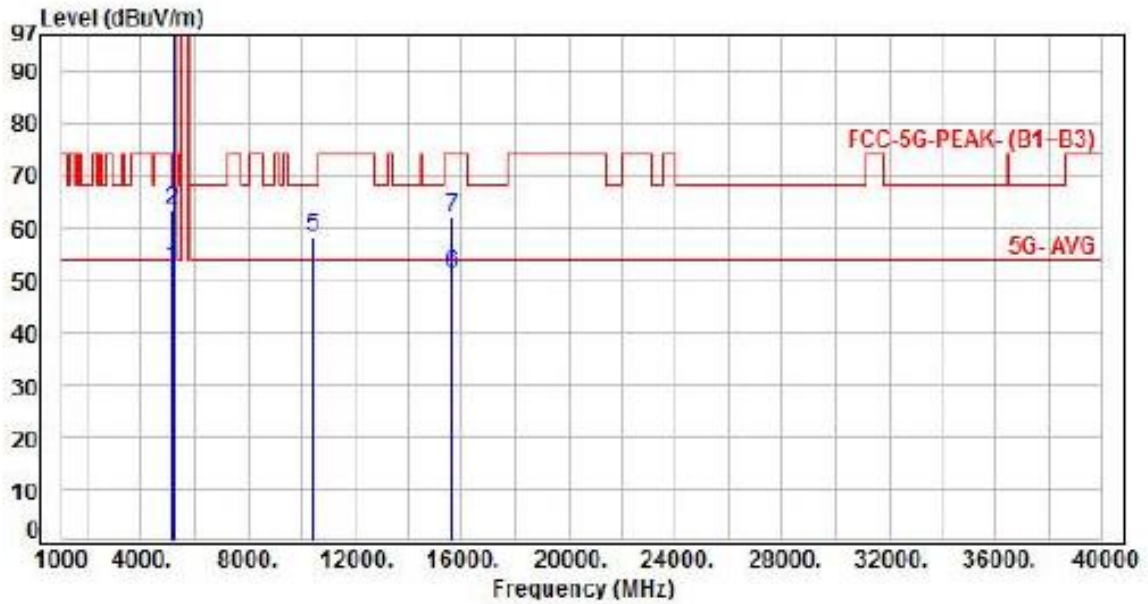
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 40.29 | 46.99 | 54.00 | -7.01 | Average | 128 | 15 | P |
| 2 | 5150.00 | 6.70 | 53.23 | 59.93 | 74.00 | -14.07 | Peak | 128 | 15 | P |
| 3 | 5180.00 | 6.85 | 90.64 | 97.49 | 200.00 | -102.51 | Average | 128 | 15 | P |
| 4 | 5180.00 | 6.85 | 100.44 | 107.29 | 200.00 | -92.71 | Peak | 128 | 15 | P |
| 5 | 10360.00 | 15.84 | 43.48 | 59.32 | 68.20 | -8.88 | Peak | 100 | 246 | P |
| 6 | 15540.00 | 19.60 | 30.29 | 49.89 | 54.00 | -4.11 | Average | 100 | 214 | P |
| 7 | 15540.00 | 19.60 | 41.69 | 61.29 | 74.00 | -12.71 | Peak | 100 | 214 | P |

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



Non BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, Band 1, CH40 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.81 | 52.51 | 54.00 | -1.49 | Average | 157 | 325 | P |
| 2 | 5150.00 | 6.70 | 56.84 | 63.54 | 74.00 | -10.46 | Peak | 157 | 325 | P |
| 3 | 5200.00 | 6.95 | 110.27 | 117.22 | 200.00 | -82.78 | Average | 157 | 325 | P |
| 4 | 5200.00 | 6.95 | 120.07 | 127.02 | 200.00 | -72.98 | Peak | 157 | 325 | P |
| 5 | 10400.00 | 15.75 | 42.52 | 58.27 | 68.20 | -9.93 | Peak | 100 | 337 | P |
| 6 | 15600.00 | 19.55 | 31.54 | 51.09 | 54.00 | -2.91 | Average | 100 | 341 | P |
| 7 | 15600.00 | 19.55 | 42.32 | 61.87 | 74.00 | -12.13 | Peak | 100 | 341 | P |

Note: Level=Reading+Factor

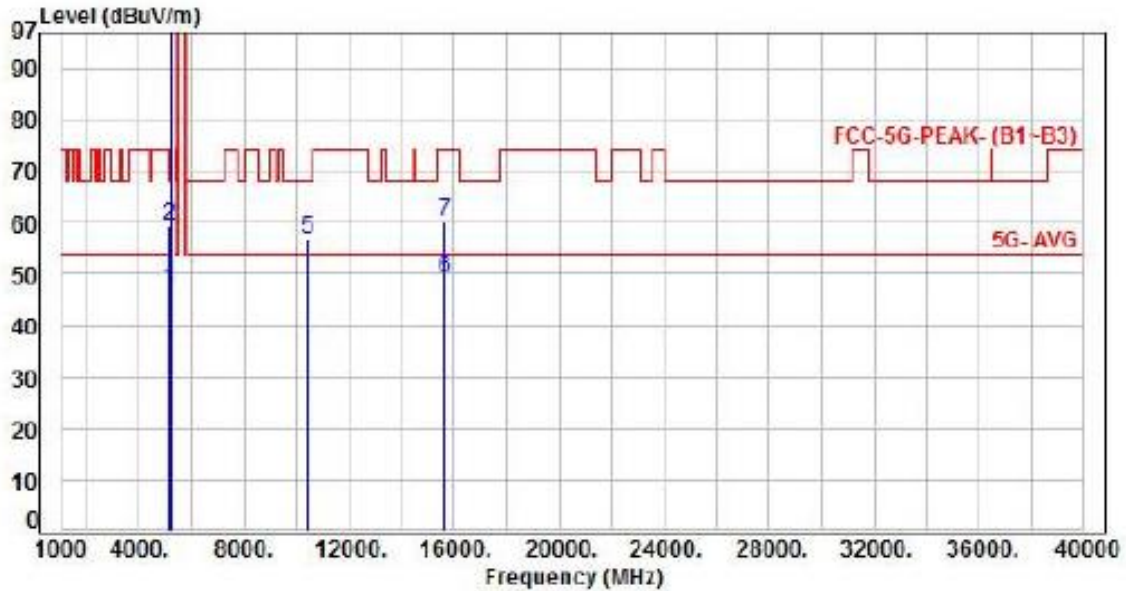
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 1, Band 1, CH40 | | : | |



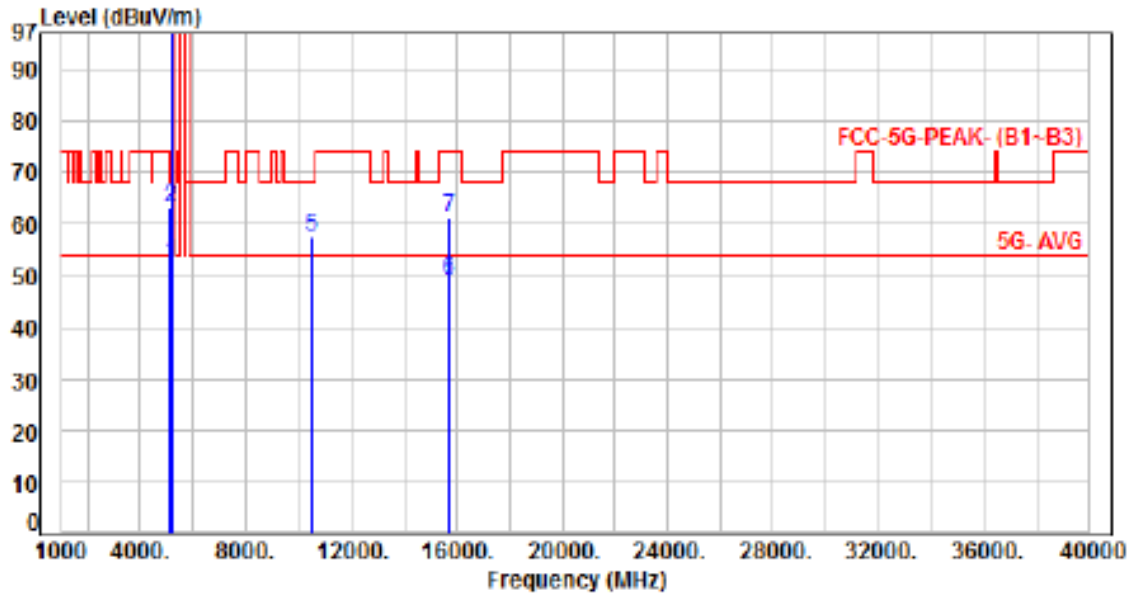
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 40.32 | 47.02 | 54.00 | -6.98 | Average | 213 | 79 | P |
| 2 | 5150.00 | 6.70 | 52.60 | 59.30 | 74.00 | -14.70 | Peak | 213 | 79 | P |
| 3 | 5200.00 | 6.95 | 93.53 | 100.48 | 200.00 | -99.52 | Average | 213 | 79 | P |
| 4 | 5200.00 | 6.95 | 103.56 | 110.51 | 200.00 | -89.49 | Peak | 213 | 79 | P |
| 5 | 10400.00 | 15.75 | 41.20 | 56.95 | 68.20 | -11.25 | Peak | 100 | 214 | P |
| 6 | 15600.00 | 19.55 | 29.64 | 49.19 | 54.00 | -4.81 | Average | 100 | 195 | P |
| 7 | 15600.00 | 19.55 | 40.73 | 60.28 | 74.00 | -13.72 | Peak | 100 | 195 | P |

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



Non BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, Band 1, CH48 | | : |



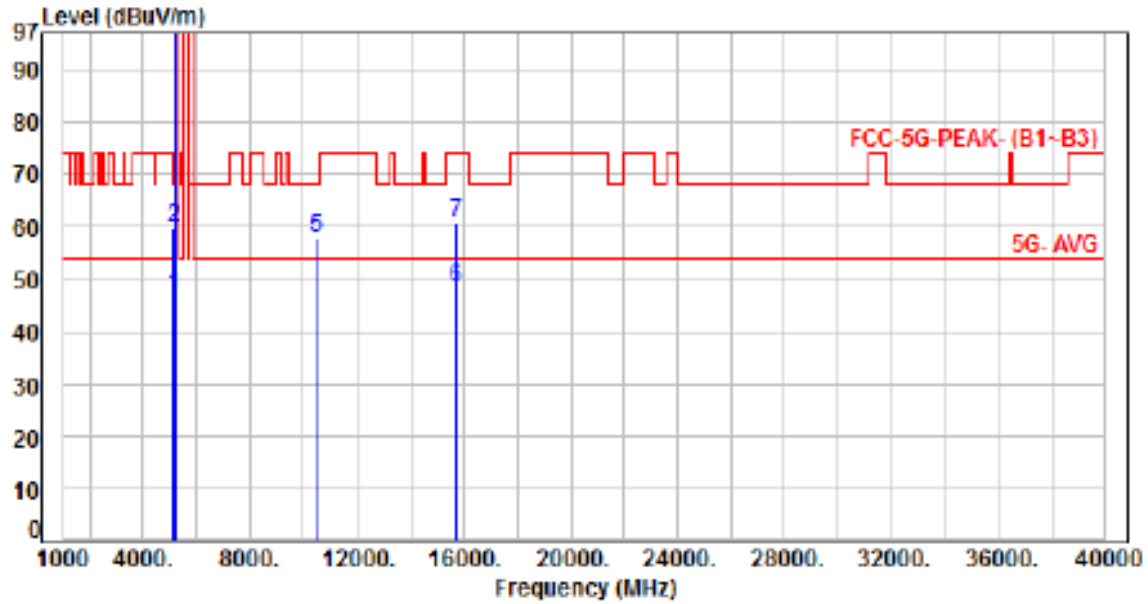
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.81 | 52.51 | 54.00 | -1.49 | Average | 155 | 30 | P |
| 2 | 5150.00 | 6.70 | 56.32 | 63.02 | 74.00 | -10.98 | Peak | 155 | 30 | P |
| 3 | 5240.00 | 7.00 | 113.58 | 120.58 | 200.00 | -79.42 | Average | 155 | 30 | P |
| 4 | 5240.00 | 7.00 | 123.96 | 130.96 | 200.00 | -69.04 | Peak | 155 | 30 | P |
| 5 | 10480.00 | 15.88 | 41.65 | 57.53 | 68.20 | -10.67 | Peak | 100 | 153 | P |
| 6 | 15720.00 | 19.16 | 29.74 | 48.90 | 54.00 | -5.10 | Average | 100 | 138 | P |
| 7 | 15720.00 | 19.16 | 42.11 | 61.27 | 74.00 | -12.73 | Peak | 100 | 138 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 1, Band 1, CH48 | | : | |



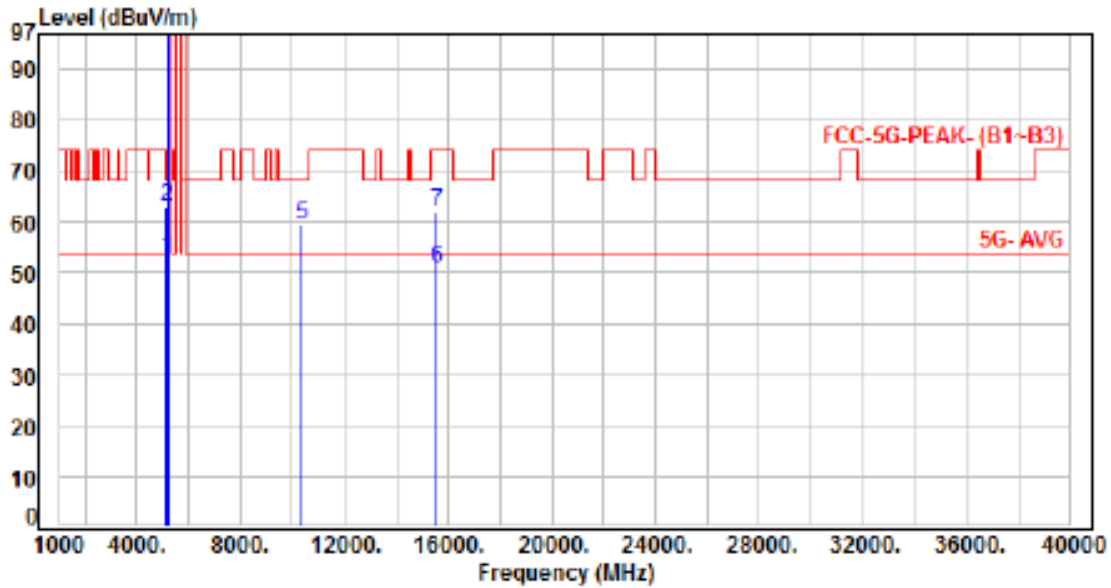
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 40.32 | 47.02 | 54.00 | -6.98 | Average | 100 | 259 | P |
| 2 | 5150.00 | 6.70 | 53.10 | 59.80 | 74.00 | -14.20 | Peak | 100 | 259 | P |
| 3 | 5240.00 | 7.00 | 93.97 | 100.97 | 200.00 | -99.03 | Average | 100 | 259 | P |
| 4 | 5240.00 | 7.00 | 104.31 | 111.31 | 200.00 | -88.69 | Peak | 100 | 259 | P |
| 5 | 10480.00 | 15.88 | 41.93 | 57.81 | 68.20 | -10.39 | Peak | 100 | 143 | P |
| 6 | 15720.00 | 19.16 | 29.13 | 48.29 | 54.00 | -5.71 | Average | 100 | 157 | P |
| 7 | 15720.00 | 19.16 | 41.69 | 60.85 | 74.00 | -13.15 | Peak | 100 | 157 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 2, Band 1, CH36 | | : | |



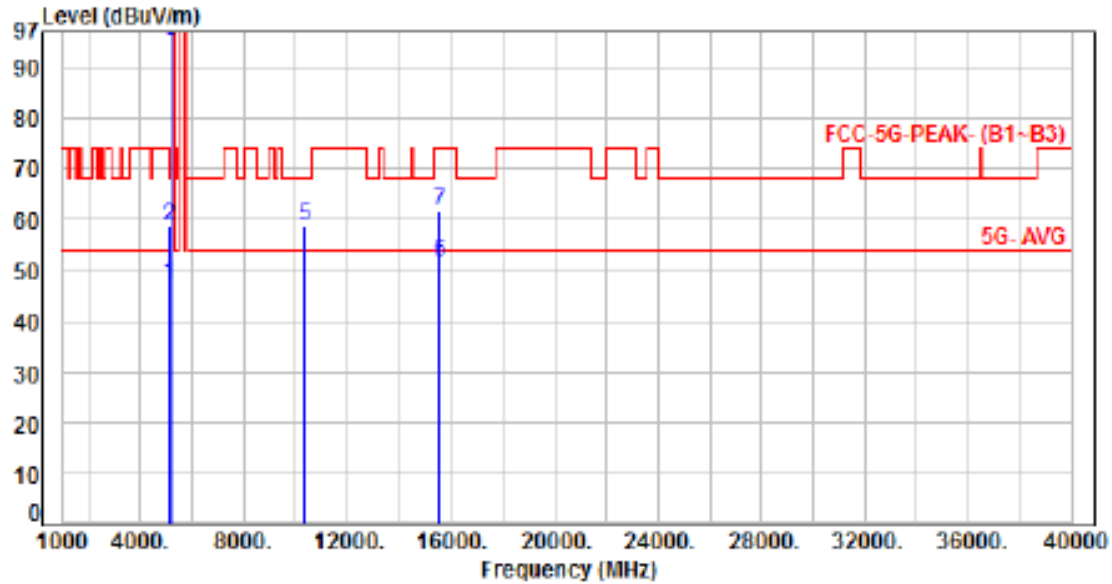
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.87 | 52.57 | 54.00 | -1.43 | Average | 151 | 35 | P |
| 2 | 5150.00 | 6.70 | 56.54 | 63.24 | 74.00 | -10.76 | Peak | 151 | 35 | P |
| 3 | 5180.00 | 6.85 | 105.34 | 112.19 | 200.00 | -87.81 | Average | 151 | 35 | P |
| 4 | 5180.00 | 6.85 | 118.43 | 125.28 | 200.00 | -74.72 | Peak | 151 | 35 | P |
| 5 | 10360.00 | 15.84 | 43.45 | 59.29 | 68.20 | -8.91 | Peak | 100 | 214 | P |
| 6 | 15540.00 | 19.60 | 31.37 | 50.97 | 54.00 | -3.03 | Average | 100 | 319 | P |
| 7 | 15540.00 | 19.60 | 42.28 | 61.88 | 74.00 | -12.12 | Peak | 100 | 319 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 2, Band 1, CH36 | | : | |



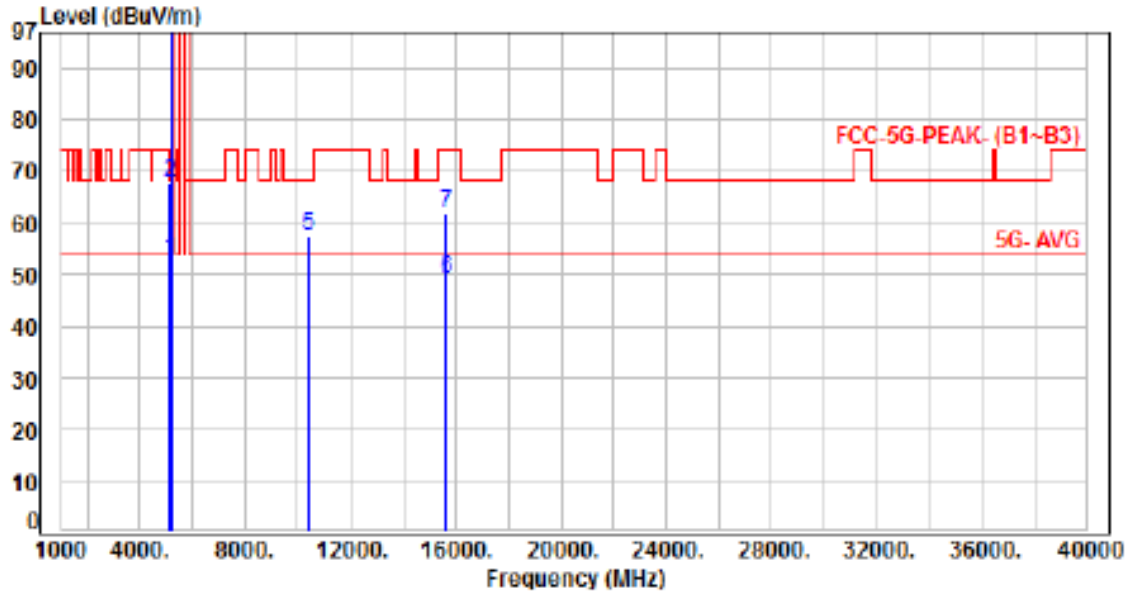
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 40.37 | 47.07 | 54.00 | -6.93 | Average | 209 | 76 | P |
| 2 | 5150.00 | 6.70 | 51.83 | 58.53 | 74.00 | -15.47 | Peak | 209 | 76 | P |
| 3 | 5180.00 | 6.85 | 88.29 | 95.14 | 200.00 | -104.86 | Average | 209 | 76 | P |
| 4 | 5180.00 | 6.85 | 101.58 | 108.43 | 200.00 | -91.57 | Peak | 209 | 76 | P |
| 5 | 10360.00 | 15.84 | 42.70 | 58.54 | 68.20 | -9.66 | Peak | 100 | 169 | P |
| 6 | 15540.00 | 19.60 | 31.86 | 51.46 | 54.00 | -2.54 | Average | 100 | 207 | P |
| 7 | 15540.00 | 19.60 | 41.96 | 61.56 | 74.00 | -12.44 | Peak | 100 | 207 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 2, Band 1, CH40 | | : | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 46.21 | 52.91 | 54.00 | -1.09 | Average | 151 | 43 | P |
| 2 | 5150.00 | 6.70 | 61.06 | 67.76 | 74.00 | -6.24 | Peak | 151 | 43 | P |
| 3 | 5200.00 | 6.95 | 110.60 | 117.55 | 200.00 | -82.45 | Average | 151 | 43 | P |
| 4 | 5200.00 | 6.95 | 123.09 | 130.04 | 200.00 | -69.96 | Peak | 151 | 43 | P |
| 5 | 10400.00 | 15.75 | 41.93 | 57.68 | 68.20 | -10.52 | Peak | 100 | 199 | P |
| 6 | 15600.00 | 19.55 | 29.55 | 49.10 | 54.00 | -4.90 | Average | 100 | 124 | P |
| 7 | 15600.00 | 19.55 | 42.24 | 61.79 | 74.00 | -12.21 | Peak | 100 | 124 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 2, Band 1, CH40 | | : | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 40.39 | 47.09 | 54.00 | -6.91 | Average | 207 | 87 | P |
| 2 | 5150.00 | 6.70 | 53.10 | 59.80 | 74.00 | -14.20 | Peak | 207 | 87 | P |
| 3 | 5200.00 | 6.95 | 93.09 | 100.04 | 200.00 | -99.96 | Average | 207 | 87 | P |
| 4 | 5200.00 | 6.95 | 105.93 | 112.88 | 200.00 | -87.12 | Peak | 207 | 87 | P |
| 5 | 10400.00 | 15.75 | 41.33 | 57.08 | 68.20 | -11.12 | Peak | 100 | 287 | P |
| 6 | 15600.00 | 19.55 | 29.66 | 49.21 | 54.00 | -4.79 | Average | 100 | 337 | P |
| 7 | 15600.00 | 19.55 | 46.24 | 65.79 | 74.00 | -8.21 | Peak | 100 | 337 | P |

Note: Level=Reading+Factor

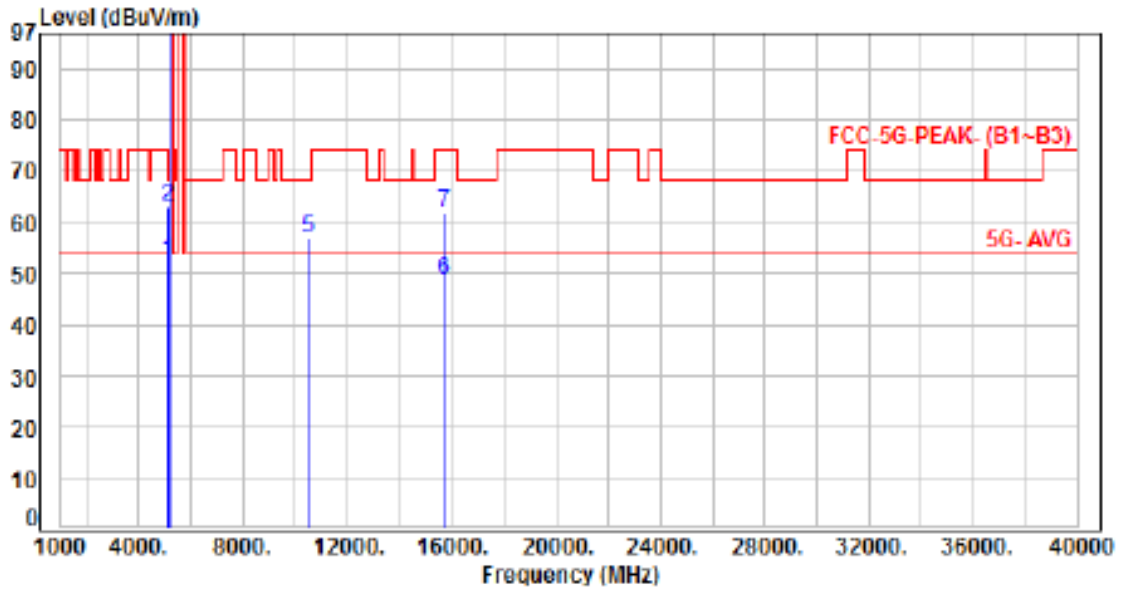
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 2, Band 1, CH48 | | : | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.85 | 52.55 | 54.00 | -1.45 | Average | 151 | 35 | P |
| 2 | 5150.00 | 6.70 | 56.35 | 63.05 | 74.00 | -10.95 | Peak | 151 | 35 | P |
| 3 | 5240.00 | 7.00 | 111.80 | 118.80 | 200.00 | -81.20 | Average | 151 | 35 | P |
| 4 | 5240.00 | 7.00 | 124.42 | 131.42 | 200.00 | -68.58 | Peak | 151 | 35 | P |
| 5 | 10400.00 | 15.88 | 41.00 | 56.88 | 68.20 | -11.32 | Peak | 100 | 167 | P |
| 6 | 15720.00 | 19.16 | 29.36 | 48.52 | 54.00 | -5.48 | Average | 100 | 143 | P |
| 7 | 15720.00 | 19.16 | 42.68 | 61.84 | 74.00 | -12.16 | Peak | 100 | 143 | P |

Note: Level=Reading+Factor

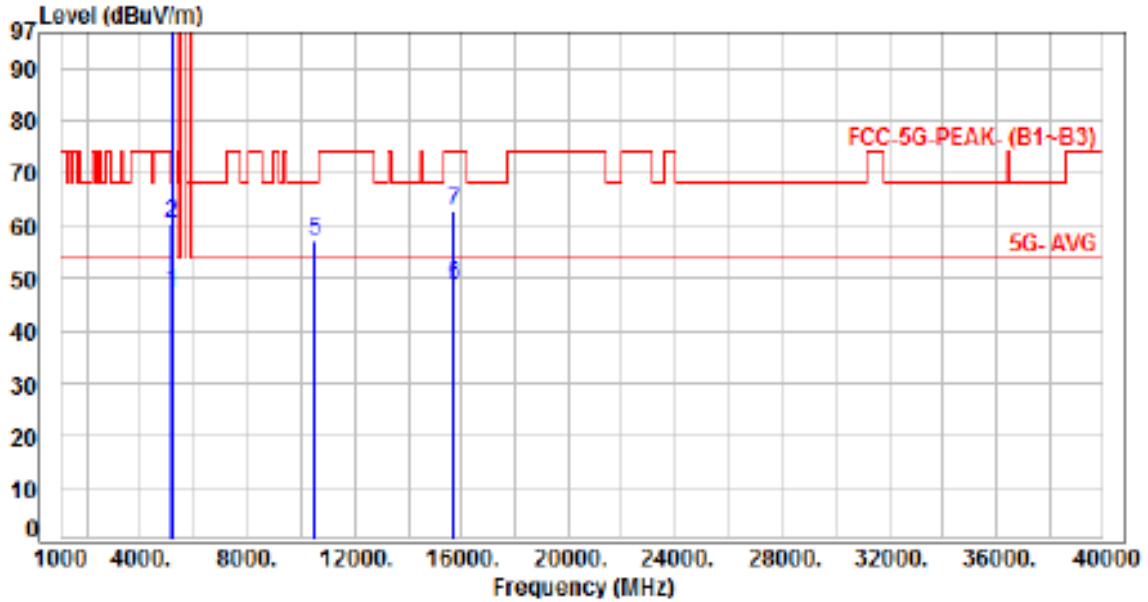
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 2, Band 1, CH48 | | : | |



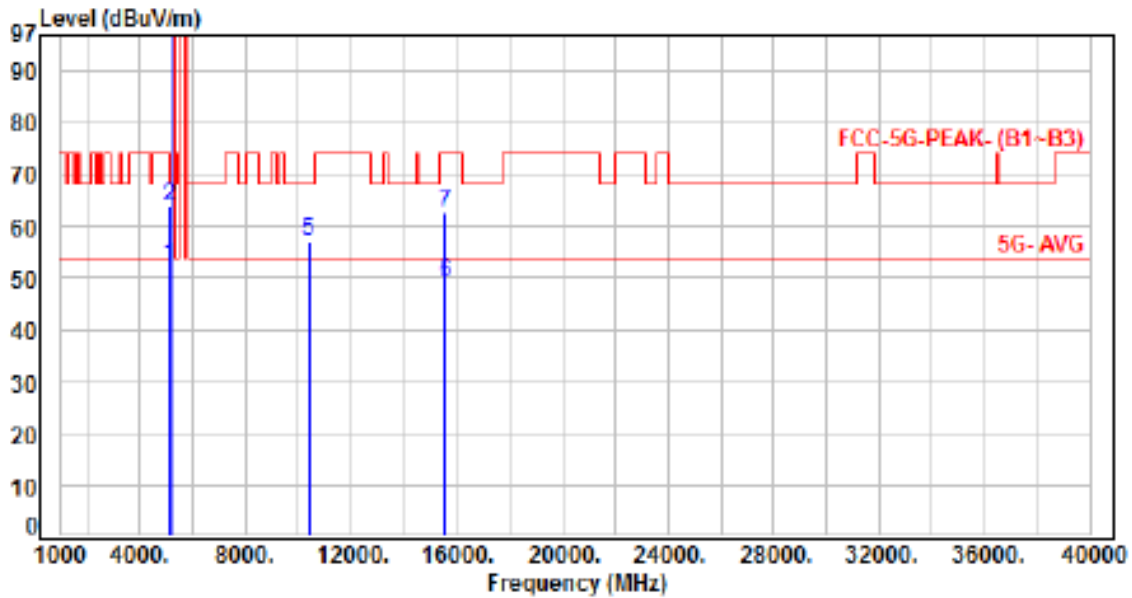
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 40.38 | 47.08 | 54.00 | -6.92 | Average | 100 | 256 | P |
| 2 | 5150.00 | 6.70 | 53.77 | 60.47 | 74.00 | -13.53 | Peak | 100 | 256 | P |
| 3 | 5240.00 | 7.00 | 91.98 | 98.98 | 200.00 | -101.02 | Average | 100 | 256 | P |
| 4 | 5240.00 | 7.00 | 105.14 | 112.14 | 200.00 | -87.86 | Peak | 100 | 256 | P |
| 5 | 10480.00 | 15.88 | 41.43 | 57.31 | 68.20 | -10.89 | Peak | 100 | 331 | P |
| 6 | 15720.00 | 19.16 | 29.67 | 48.83 | 54.00 | -5.17 | Average | 100 | 319 | P |
| 7 | 15720.00 | 19.16 | 43.61 | 62.77 | 74.00 | -11.23 | Peak | 100 | 319 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 3, Band 1, CH38 | | : | |



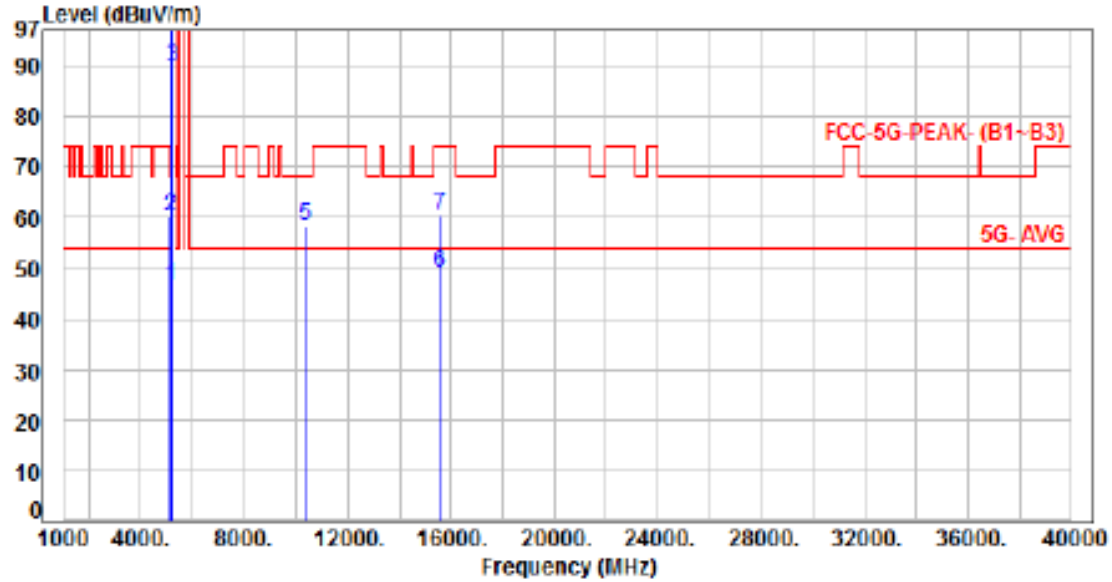
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.81 | 52.51 | 54.00 | -1.49 | Average | 143 | 33 | P |
| 2 | 5150.00 | 6.70 | 57.07 | 63.77 | 74.00 | -10.23 | Peak | 143 | 33 | P |
| 3 | 5190.00 | 6.90 | 99.82 | 106.72 | 200.00 | -93.28 | Average | 143 | 33 | P |
| 4 | 5190.00 | 6.90 | 111.81 | 118.71 | 200.00 | -81.29 | Peak | 143 | 33 | P |
| 5 | 10380.00 | 15.80 | 41.20 | 57.00 | 68.20 | -11.20 | Peak | 100 | 259 | P |
| 6 | 15570.00 | 19.56 | 29.65 | 49.21 | 54.00 | -4.79 | Average | 100 | 224 | P |
| 7 | 15570.00 | 19.56 | 43.06 | 62.62 | 74.00 | -11.38 | Peak | 100 | 224 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 3, Band 1, CH38 | | : | |



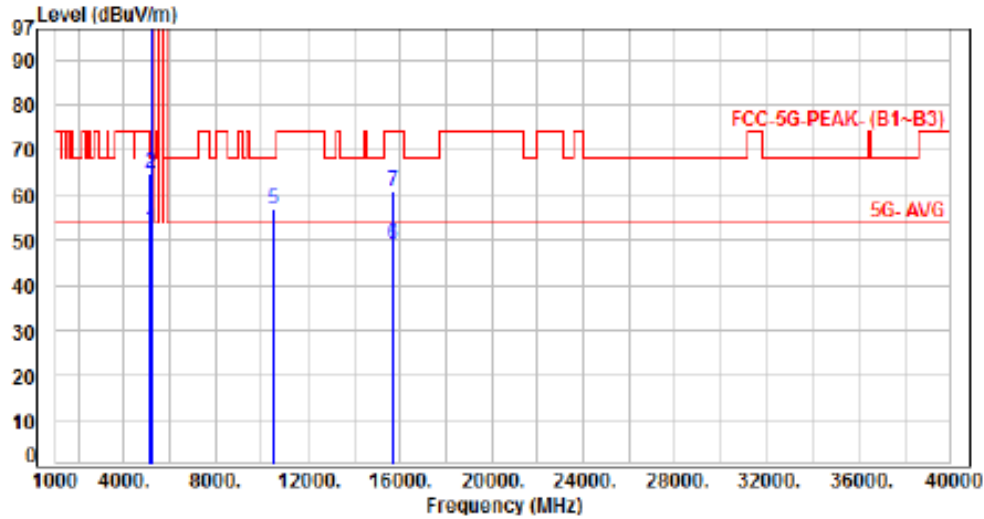
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 39.80 | 46.50 | 54.00 | -7.50 | Average | 242 | 19 | P |
| 2 | 5150.00 | 6.70 | 53.46 | 60.16 | 74.00 | -13.84 | Peak | 242 | 19 | P |
| 3 | 5190.00 | 6.90 | 82.61 | 89.51 | 200.00 | -110.49 | Average | 242 | 19 | P |
| 4 | 5190.00 | 6.90 | 95.14 | 102.04 | 200.00 | -97.96 | Peak | 242 | 19 | P |
| 5 | 10380.00 | 15.80 | 42.61 | 58.41 | 68.20 | -9.79 | Peak | 100 | 191 | P |
| 6 | 15570.00 | 19.56 | 29.65 | 49.21 | 54.00 | -4.79 | Average | 100 | 247 | P |
| 7 | 15570.00 | 19.56 | 41.10 | 60.66 | 74.00 | -13.34 | Peak | 100 | 247 | P |

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



Non BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 3, Band 1, CH46 | | : |



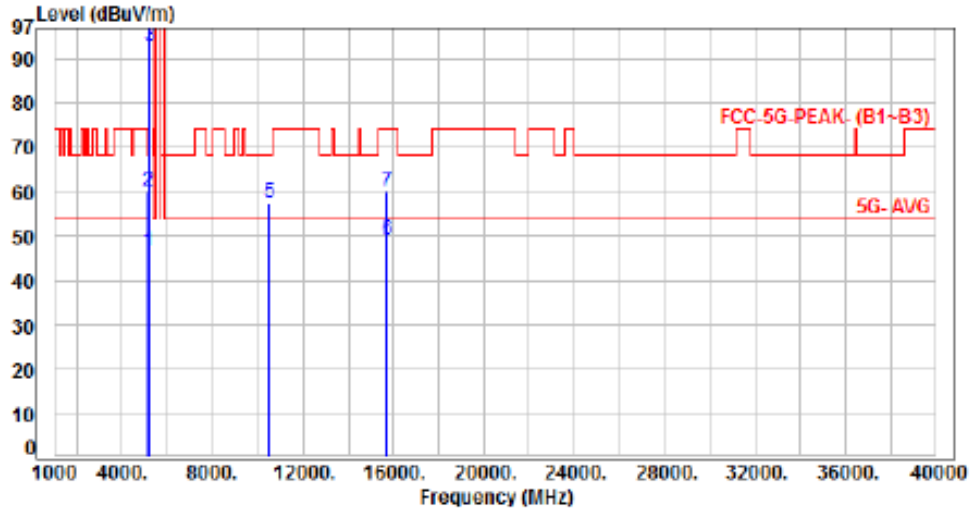
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.85 | 52.55 | 54.00 | -1.45 | Average | 151 | 39 | P |
| 2 | 5150.00 | 6.70 | 58.18 | 64.88 | 74.00 | -9.12 | Peak | 151 | 39 | P |
| 3 | 5230.00 | 6.99 | 106.05 | 113.04 | 200.00 | -86.96 | Average | 151 | 39 | P |
| 4 | 5230.00 | 6.99 | 120.18 | 127.17 | 200.00 | -72.83 | Peak | 151 | 39 | P |
| 5 | 10460.00 | 15.77 | 40.89 | 56.66 | 68.20 | -11.54 | Peak | 100 | 292 | P |
| 6 | 15690.00 | 19.35 | 29.78 | 49.13 | 54.00 | -4.87 | Average | 100 | 183 | P |
| 7 | 15690.00 | 19.35 | 41.45 | 60.80 | 74.00 | -13.20 | Peak | 100 | 183 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 3, Band 1, CH46 | | : | |



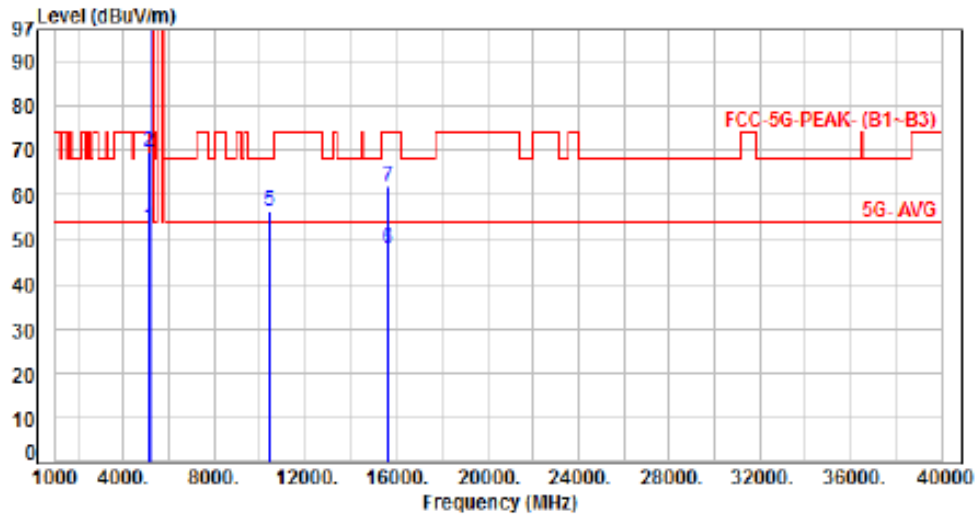
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 39.95 | 46.65 | 54.00 | -7.35 | Average | 100 | 259 | P |
| 2 | 5150.00 | 6.70 | 53.50 | 60.20 | 74.00 | -13.80 | Peak | 100 | 259 | P |
| 3 | 5230.00 | 6.99 | 85.98 | 92.97 | 200.00 | -107.03 | Average | 100 | 259 | P |
| 4 | 5230.00 | 6.99 | 98.17 | 105.16 | 200.00 | -94.84 | Peak | 100 | 259 | P |
| 5 | 10460.00 | 15.77 | 41.92 | 57.69 | 68.20 | -10.51 | Peak | 100 | 216 | P |
| 6 | 15690.00 | 19.35 | 29.64 | 48.99 | 54.00 | -5.01 | Average | 100 | 233 | P |
| 7 | 15690.00 | 19.35 | 40.61 | 59.96 | 74.00 | -14.04 | Peak | 100 | 233 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 4, Band 1, CH42 | | : | |



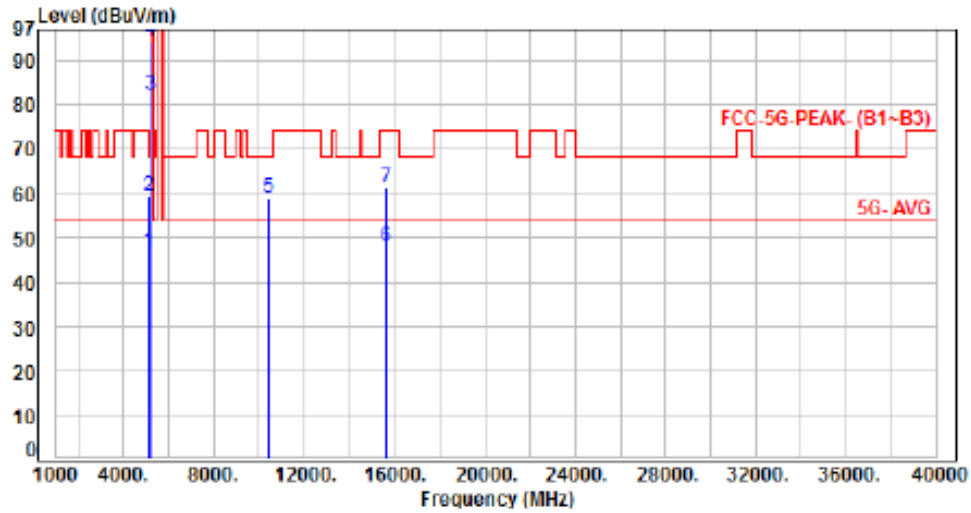
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.86 | 52.56 | 54.00 | -1.44 | Average | 153 | 332 | P |
| 2 | 5150.00 | 6.70 | 62.88 | 69.58 | 74.00 | -4.42 | Peak | 153 | 332 | P |
| 3 | 5210.00 | 6.97 | 93.05 | 100.02 | 200.00 | -99.98 | Average | 153 | 332 | P |
| 4 | 5210.00 | 6.97 | 105.34 | 112.31 | 200.00 | -87.69 | Peak | 153 | 332 | P |
| 5 | 10420.00 | 15.74 | 40.68 | 56.42 | 68.20 | -11.78 | Peak | 100 | 77 | P |
| 6 | 15630.00 | 19.48 | 28.44 | 47.92 | 54.00 | -6.08 | Average | 100 | 153 | P |
| 7 | 15630.00 | 19.48 | 42.33 | 61.81 | 74.00 | -12.19 | Peak | 100 | 153 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 4, Band 1, CH42 | | : | |



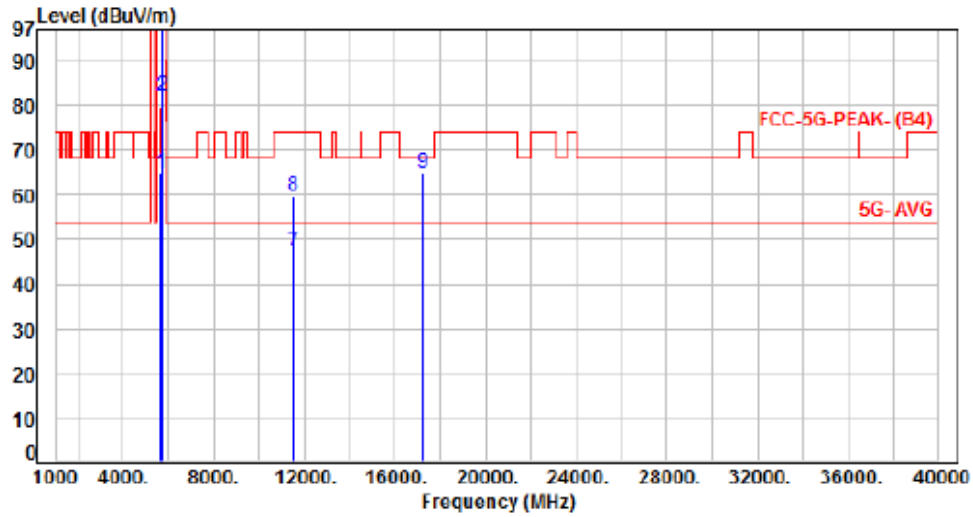
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 40.04 | 46.74 | 54.00 | -7.26 | Average | 240 | 196 | P |
| 2 | 5150.00 | 6.70 | 52.65 | 59.35 | 74.00 | -14.65 | Peak | 240 | 196 | P |
| 3 | 5210.00 | 6.97 | 75.27 | 82.24 | 200.00 | -117.76 | Average | 240 | 196 | P |
| 4 | 5210.00 | 6.97 | 87.38 | 94.35 | 200.00 | -105.65 | Peak | 240 | 196 | P |
| 5 | 10420.00 | 15.74 | 43.09 | 58.83 | 68.20 | -9.37 | Peak | 100 | 246 | P |
| 6 | 15630.00 | 19.48 | 28.45 | 47.93 | 54.00 | -6.07 | Average | 100 | 334 | P |
| 7 | 15630.00 | 19.48 | 41.89 | 61.37 | 74.00 | -12.63 | Peak | 100 | 334 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 1, Band 4, CH149 | | : | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 57.72 | 65.07 | 68.20 | -3.13 | Peak | 244 | 180 | P |
| 2 | 5700.00 | 7.37 | 74.79 | 82.16 | 105.20 | -23.04 | Peak | 244 | 180 | P |
| 3 | 5720.00 | 7.34 | 93.82 | 101.16 | 110.80 | -9.64 | Peak | 244 | 180 | P |
| 4 | 5725.00 | 7.33 | 99.88 | 107.21 | 122.20 | -14.99 | Peak | 244 | 180 | P |
| 5 | 5745.00 | 7.30 | 111.95 | 119.25 | 200.00 | -80.75 | Average | 244 | 180 | P |
| 6 | 5745.00 | 7.30 | 121.68 | 128.98 | 200.00 | -71.02 | Peak | 244 | 180 | P |
| 7 | 11490.00 | 17.63 | 29.44 | 47.07 | 54.00 | -6.93 | Average | 100 | 144 | P |
| 8 | 11490.00 | 17.63 | 41.95 | 59.58 | 74.00 | -14.42 | Peak | 100 | 144 | P |
| 9 | 17235.00 | 23.62 | 41.22 | 64.84 | 68.20 | -3.36 | Peak | 100 | 249 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 1, Band 4, CH149 | | : | |



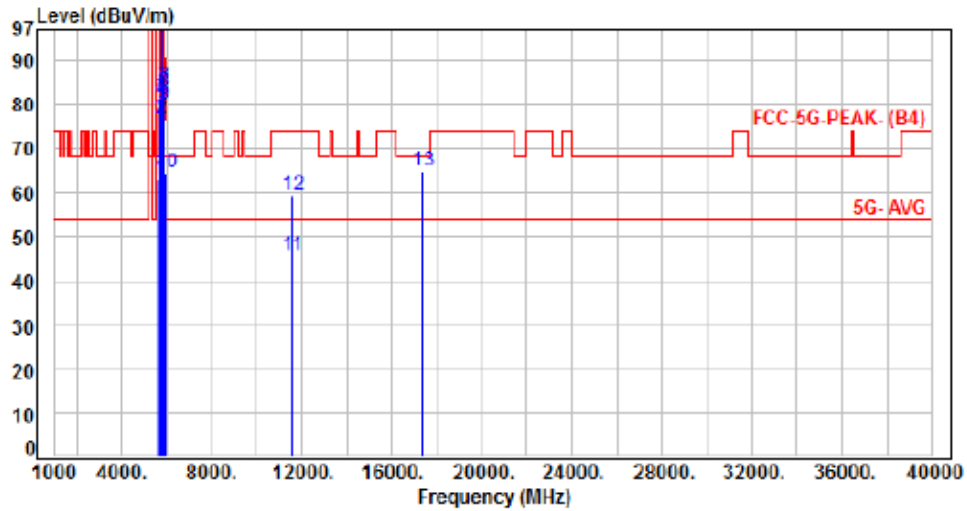
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 51.26 | 58.61 | 68.20 | -9.59 | Peak | 126 | 23 | P |
| 2 | 5700.00 | 7.37 | 60.84 | 68.21 | 105.20 | -36.99 | Peak | 126 | 23 | P |
| 3 | 5720.00 | 7.34 | 79.70 | 87.04 | 110.80 | -23.76 | Peak | 126 | 23 | P |
| 4 | 5725.00 | 7.33 | 84.84 | 92.17 | 122.20 | -30.03 | Peak | 126 | 23 | P |
| 5 | 5745.00 | 7.30 | 100.02 | 107.32 | 200.00 | -92.68 | Average | 126 | 23 | P |
| 6 | 5745.00 | 7.30 | 110.14 | 117.44 | 200.00 | -82.56 | Peak | 126 | 23 | P |
| 7 | 11490.00 | 17.63 | 29.63 | 47.26 | 54.00 | -6.74 | Average | 100 | 314 | P |
| 8 | 11490.00 | 17.63 | 41.69 | 59.32 | 74.00 | -14.68 | Peak | 100 | 314 | P |
| 9 | 17235.00 | 23.62 | 42.81 | 66.43 | 68.20 | -1.77 | Peak | 100 | 123 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 1, Band 4, CH157 | | : | |



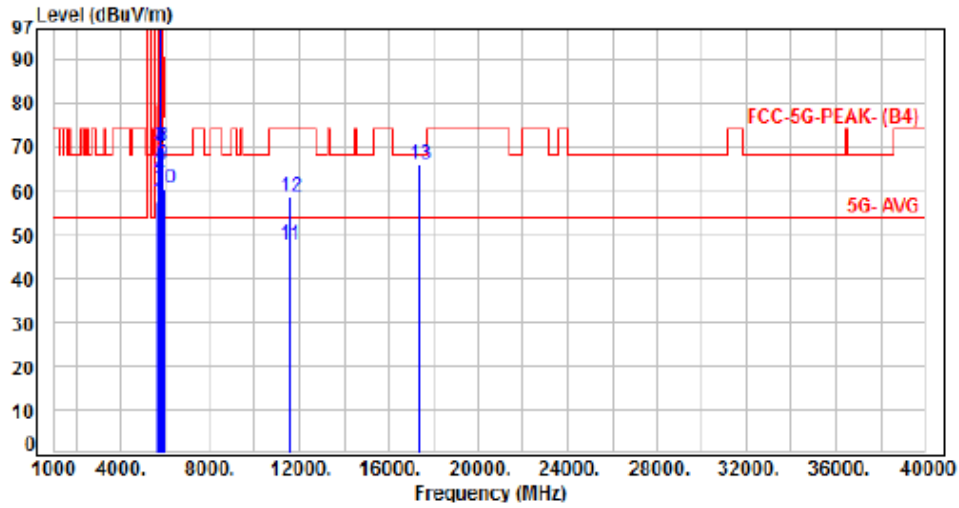
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 55.60 | 62.95 | 68.20 | -5.25 | Peak | 251 | 181 | P |
| 2 | 5700.00 | 7.37 | 69.33 | 76.70 | 105.20 | -28.50 | Peak | 251 | 181 | P |
| 3 | 5720.00 | 7.34 | 74.11 | 81.45 | 110.80 | -29.35 | Peak | 251 | 181 | P |
| 4 | 5725.00 | 7.33 | 74.00 | 81.33 | 122.20 | -40.87 | Peak | 251 | 181 | P |
| 5 | 5785.00 | 7.37 | 113.41 | 120.78 | 200.00 | -79.22 | Average | 251 | 181 | P |
| 6 | 5785.00 | 7.37 | 123.88 | 131.25 | 200.00 | -68.75 | Peak | 251 | 181 | P |
| 7 | 5850.00 | 7.43 | 76.16 | 83.59 | 122.20 | -38.61 | Peak | 251 | 181 | P |
| 8 | 5855.00 | 7.45 | 75.45 | 82.90 | 110.80 | -27.90 | Peak | 251 | 181 | P |
| 9 | 5875.00 | 7.54 | 72.35 | 79.89 | 105.20 | -25.31 | Peak | 251 | 181 | P |
| 10 | 5925.00 | 7.66 | 56.76 | 64.42 | 68.20 | -3.78 | Peak | 251 | 181 | P |
| 11 | 11570.00 | 17.83 | 27.99 | 45.82 | 54.00 | -8.18 | Average | 100 | 151 | P |
| 12 | 11570.00 | 17.83 | 41.43 | 59.26 | 74.00 | -14.74 | Peak | 100 | 151 | P |
| 13 | 17355.00 | 24.42 | 40.65 | 65.07 | 68.20 | -3.13 | Peak | 100 | 336 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 1, Band 4, CH157 | | : | |



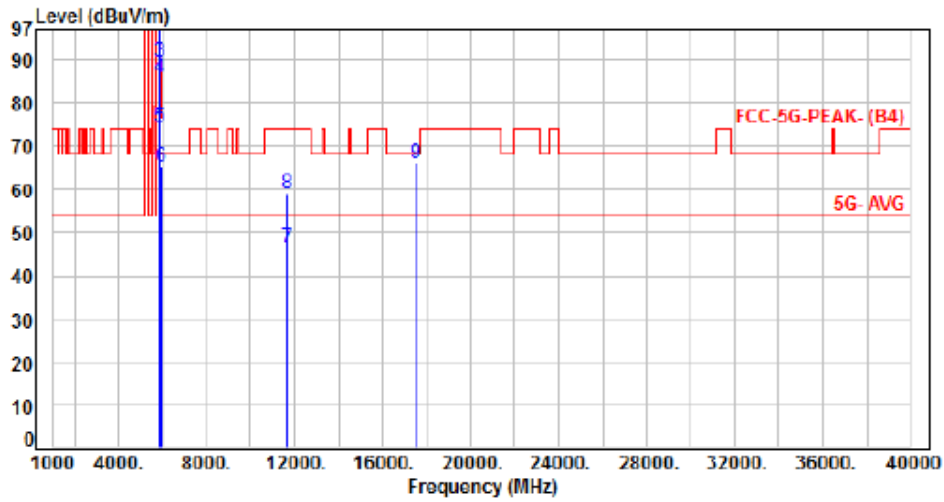
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 50.29 | 57.64 | 68.20 | -10.56 | Peak | 129 | 23 | P |
| 2 | 5700.00 | 7.37 | 56.73 | 64.10 | 105.20 | -41.10 | Peak | 129 | 23 | P |
| 3 | 5720.00 | 7.34 | 62.81 | 70.15 | 110.80 | -40.65 | Peak | 129 | 23 | P |
| 4 | 5725.00 | 7.33 | 62.26 | 69.59 | 122.20 | -52.61 | Peak | 129 | 23 | P |
| 5 | 5785.00 | 7.37 | 100.49 | 107.86 | 200.00 | -92.14 | Average | 129 | 23 | P |
| 6 | 5785.00 | 7.37 | 110.99 | 118.36 | 200.00 | -81.64 | Peak | 129 | 23 | P |
| 7 | 5850.00 | 7.43 | 62.35 | 69.78 | 122.20 | -52.42 | Peak | 129 | 23 | P |
| 8 | 5855.00 | 7.45 | 62.40 | 69.93 | 110.00 | -40.07 | Peak | 129 | 23 | P |
| 9 | 5875.00 | 7.54 | 58.43 | 65.97 | 105.20 | -39.23 | Peak | 129 | 23 | P |
| 10 | 5925.00 | 7.66 | 52.85 | 60.51 | 68.20 | -7.69 | Peak | 129 | 23 | P |
| 11 | 11570.00 | 17.83 | 29.61 | 47.44 | 54.00 | -6.56 | Average | 100 | 224 | P |
| 12 | 11570.00 | 17.83 | 40.96 | 58.79 | 74.00 | -15.21 | Peak | 100 | 224 | P |
| 13 | 17355.00 | 24.42 | 41.52 | 65.94 | 68.20 | -2.26 | Peak | 100 | 338 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 1, Band 4, CH165 | | : | |



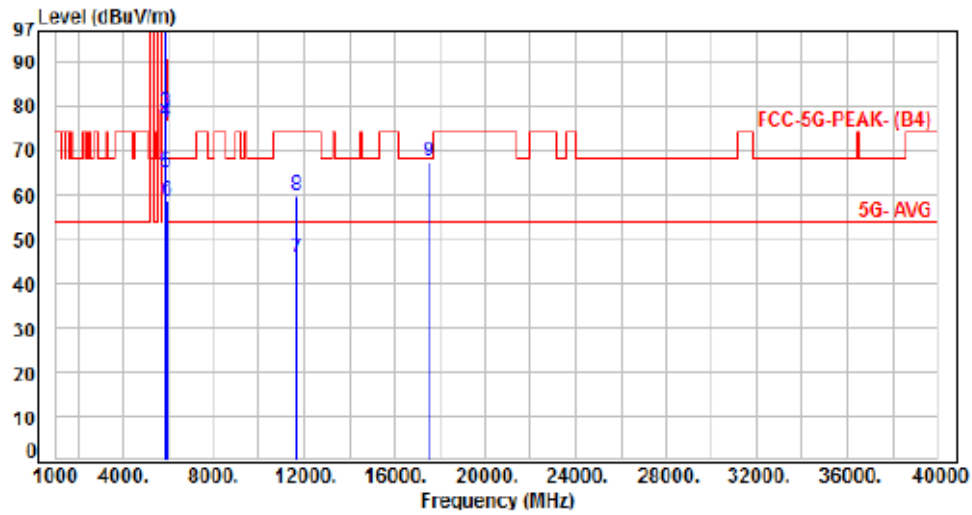
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5825.00 | 7.42 | 110.31 | 117.73 | 200.00 | -82.27 | Average | 205 | 26 | P |
| 2 | 5825.00 | 7.42 | 120.77 | 128.19 | 200.00 | -71.81 | Peak | 205 | 26 | P |
| 3 | 5850.00 | 7.43 | 82.20 | 89.63 | 122.20 | -32.57 | Peak | 205 | 26 | P |
| 4 | 5855.00 | 7.45 | 78.38 | 85.83 | 110.00 | -24.97 | Peak | 205 | 26 | P |
| 5 | 5875.00 | 7.54 | 66.94 | 74.48 | 105.20 | -30.72 | Peak | 205 | 26 | P |
| 6 | 5925.00 | 7.66 | 57.75 | 65.41 | 68.20 | -2.79 | Peak | 205 | 26 | P |
| 7 | 11650.00 | 17.99 | 28.46 | 46.45 | 54.00 | -7.55 | Average | 100 | 249 | P |
| 8 | 11650.00 | 17.99 | 41.08 | 59.07 | 74.00 | -14.93 | Peak | 100 | 249 | P |
| 9 | 17475.00 | 25.00 | 41.07 | 66.07 | 68.20 | -2.13 | Peak | 100 | 335 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 1, Band 4, CH165 | | : | |



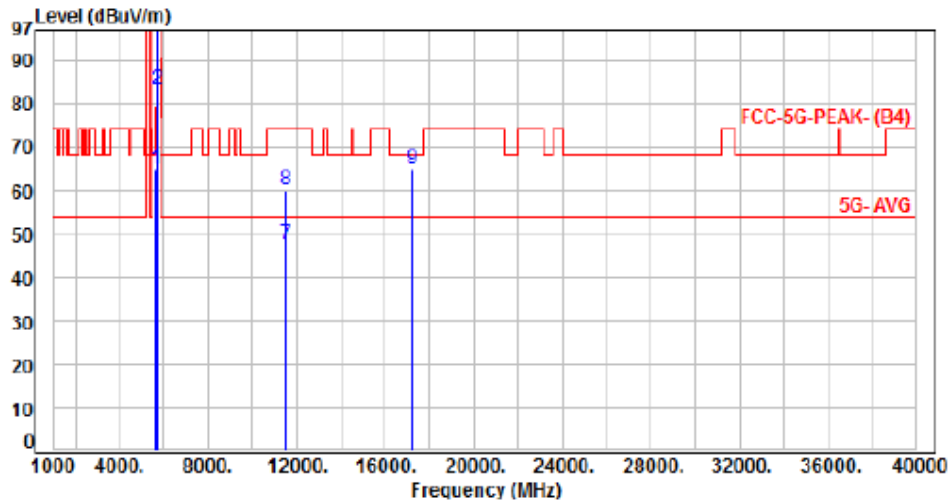
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5825.00 | 7.42 | 97.60 | 105.02 | 200.00 | -94.98 | Average | 138 | 21 | P |
| 2 | 5825.00 | 7.42 | 107.36 | 114.78 | 200.00 | -85.22 | Peak | 138 | 21 | P |
| 3 | 5850.00 | 7.43 | 71.28 | 78.71 | 122.20 | -43.49 | Peak | 138 | 21 | P |
| 4 | 5855.00 | 7.45 | 68.74 | 76.19 | 110.80 | -34.61 | Peak | 138 | 21 | P |
| 5 | 5875.00 | 7.54 | 57.42 | 64.96 | 105.20 | -40.24 | Peak | 138 | 21 | P |
| 6 | 5925.00 | 7.66 | 51.10 | 58.76 | 68.20 | -9.44 | Peak | 138 | 21 | P |
| 7 | 11650.00 | 17.99 | 27.69 | 45.68 | 54.00 | -8.32 | Average | 100 | 226 | P |
| 8 | 11650.00 | 17.99 | 41.71 | 59.70 | 74.00 | -14.30 | Peak | 100 | 226 | P |
| 9 | 17475.00 | 25.00 | 42.66 | 67.66 | 68.20 | -0.54 | Peak | 100 | 339 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 2, Band 4, CH149 | | : | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 57.54 | 64.89 | 68.20 | -3.31 | Peak | 243 | 182 | P |
| 2 | 5700.00 | 7.37 | 75.89 | 83.26 | 105.20 | -21.94 | Peak | 243 | 182 | P |
| 3 | 5720.00 | 7.34 | 97.43 | 104.77 | 110.80 | -6.03 | Peak | 243 | 182 | P |
| 4 | 5725.00 | 7.33 | 99.67 | 107.00 | 122.20 | -15.20 | Peak | 243 | 182 | P |
| 5 | 5745.00 | 7.30 | 111.32 | 118.62 | 200.00 | -81.38 | Average | 243 | 182 | P |
| 6 | 5745.00 | 7.30 | 124.67 | 131.97 | 200.00 | -68.03 | Peak | 243 | 182 | P |
| 7 | 11490.00 | 17.63 | 29.94 | 47.57 | 54.00 | -6.43 | Average | 100 | 117 | P |
| 8 | 11490.00 | 17.63 | 42.50 | 60.13 | 74.00 | -13.87 | Peak | 100 | 117 | P |
| 9 | 17235.00 | 23.62 | 41.39 | 65.01 | 68.20 | -3.19 | Peak | 100 | 123 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 2, Band 4, CH149 | | : | |



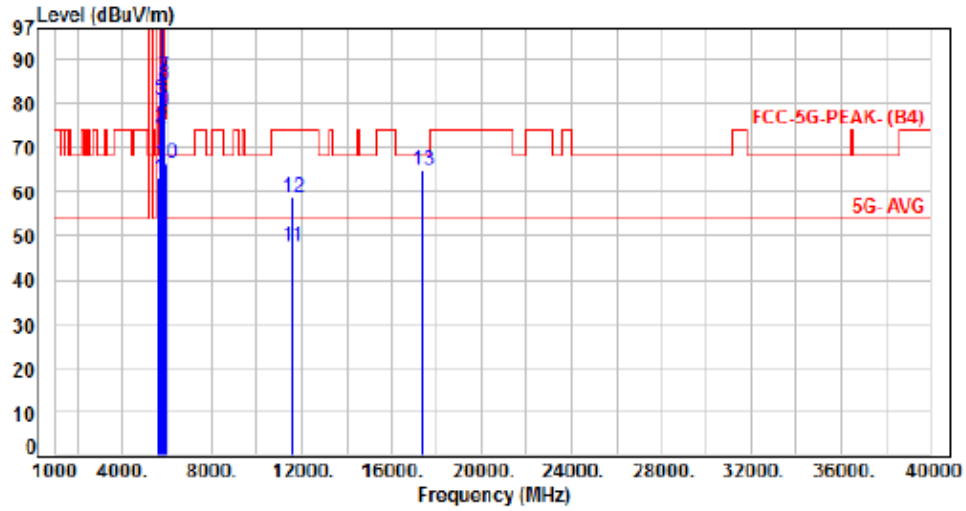
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 50.94 | 58.29 | 68.20 | -9.91 | Peak | 125 | 22 | P |
| 2 | 5700.00 | 7.37 | 64.63 | 72.00 | 105.20 | -33.20 | Peak | 125 | 22 | P |
| 3 | 5720.00 | 7.34 | 82.75 | 90.10 | 110.80 | -20.70 | Peak | 125 | 22 | P |
| 4 | 5725.00 | 7.33 | 86.83 | 94.16 | 122.20 | -28.04 | Peak | 125 | 22 | P |
| 5 | 5745.00 | 7.30 | 99.26 | 106.56 | 200.00 | -93.44 | Average | 125 | 22 | P |
| 6 | 5745.00 | 7.30 | 112.51 | 119.81 | 200.00 | -80.19 | Peak | 125 | 22 | P |
| 7 | 11490.00 | 17.63 | 27.66 | 45.29 | 54.00 | -8.71 | Average | 100 | 269 | P |
| 8 | 11490.00 | 17.63 | 41.85 | 59.48 | 74.00 | -14.52 | Peak | 100 | 269 | P |
| 9 | 17235.00 | 23.62 | 42.19 | 65.81 | 68.20 | -2.39 | Peak | 100 | 311 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 2, Band 4, CH157 | | : | |



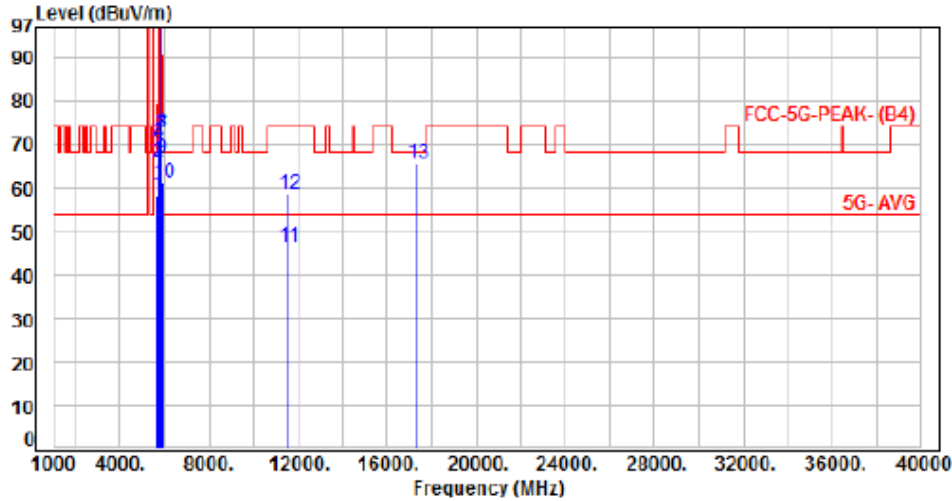
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 55.82 | 63.17 | 68.20 | -5.03 | Peak | 249 | 179 | P |
| 2 | 5700.00 | 7.37 | 67.19 | 74.56 | 105.20 | -30.64 | Peak | 249 | 179 | P |
| 3 | 5720.00 | 7.34 | 73.43 | 80.77 | 110.80 | -30.03 | Peak | 249 | 179 | P |
| 4 | 5725.00 | 7.33 | 75.09 | 82.42 | 122.20 | -39.78 | Peak | 249 | 179 | P |
| 5 | 5785.00 | 7.37 | 113.02 | 120.39 | 200.00 | -79.61 | Average | 249 | 179 | P |
| 6 | 5785.00 | 7.37 | 124.06 | 131.43 | 200.00 | -68.57 | Peak | 249 | 179 | P |
| 7 | 5850.00 | 7.43 | 79.00 | 86.43 | 122.20 | -35.77 | Peak | 249 | 179 | P |
| 8 | 5855.00 | 7.45 | 76.86 | 84.31 | 110.80 | -26.49 | Peak | 249 | 179 | P |
| 9 | 5875.00 | 7.54 | 70.58 | 78.12 | 105.20 | -27.08 | Peak | 249 | 179 | P |
| 10 | 5925.00 | 7.66 | 58.56 | 66.22 | 68.20 | -1.98 | Peak | 249 | 179 | P |
| 11 | 11570.00 | 17.83 | 29.67 | 47.50 | 54.00 | -6.50 | Average | 100 | 246 | P |
| 12 | 11570.00 | 17.83 | 40.67 | 58.50 | 74.00 | -15.50 | Peak | 100 | 246 | P |
| 13 | 17355.00 | 24.42 | 40.59 | 65.01 | 68.20 | -3.19 | Peak | 100 | 334 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 2, Band 4, CH157 | | : | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 51.05 | 58.41 | 68.20 | -9.79 | Peak | 126 | 23 | P |
| 2 | 5700.00 | 7.37 | 58.63 | 66.00 | 105.20 | -39.20 | Peak | 126 | 23 | P |
| 3 | 5720.00 | 7.34 | 63.12 | 70.46 | 110.80 | -40.34 | Peak | 126 | 23 | P |
| 4 | 5725.00 | 7.33 | 63.27 | 70.60 | 122.20 | -51.60 | Peak | 126 | 23 | P |
| 5 | 5785.00 | 7.37 | 99.97 | 107.34 | 200.00 | -92.66 | Average | 126 | 23 | P |
| 6 | 5785.00 | 7.37 | 112.43 | 119.80 | 200.00 | -80.20 | Peak | 126 | 23 | P |
| 7 | 5850.00 | 7.43 | 64.54 | 71.97 | 122.20 | -50.23 | Peak | 126 | 23 | P |
| 8 | 5855.00 | 7.45 | 65.13 | 72.58 | 110.80 | -38.22 | Peak | 126 | 23 | P |
| 9 | 5875.00 | 7.54 | 59.33 | 66.87 | 105.20 | -38.33 | Peak | 126 | 23 | P |
| 10 | 5925.00 | 7.66 | 53.58 | 61.24 | 68.20 | -6.96 | Peak | 126 | 23 | P |
| 11 | 11570.00 | 17.83 | 28.64 | 46.47 | 54.00 | -7.53 | Average | 100 | 236 | P |
| 12 | 11570.00 | 17.83 | 40.64 | 58.47 | 74.00 | -15.53 | Peak | 100 | 236 | P |
| 13 | 17355.00 | 24.42 | 41.10 | 65.52 | 68.20 | -2.68 | Peak | 100 | 341 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 2, Band 4, CH165 | | : | |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5825.00 | 7.42 | 109.47 | 116.89 | 200.00 | -83.11 | Average | 212 | 22 | P |
| 2 | 5825.00 | 7.42 | 122.93 | 130.35 | 200.00 | -69.65 | Peak | 212 | 22 | P |
| 3 | 5850.00 | 7.43 | 86.28 | 93.71 | 122.20 | -28.49 | Peak | 212 | 22 | P |
| 4 | 5855.00 | 7.45 | 84.04 | 91.49 | 110.00 | -19.31 | Peak | 212 | 22 | P |
| 5 | 5875.00 | 7.54 | 71.70 | 79.24 | 105.20 | -25.96 | Peak | 212 | 22 | P |
| 6 | 5925.00 | 7.66 | 59.48 | 67.14 | 68.20 | -1.06 | Peak | 212 | 22 | P |
| 7 | 11650.00 | 17.99 | 28.87 | 46.86 | 54.00 | -7.14 | Average | 100 | 246 | P |
| 8 | 11650.00 | 17.99 | 40.64 | 58.63 | 74.00 | -15.37 | Peak | 100 | 246 | P |
| 9 | 17475.00 | 25.00 | 41.66 | 66.66 | 68.20 | -1.54 | Peak | 100 | 336 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 2, Band 4, CH165 | | : | |



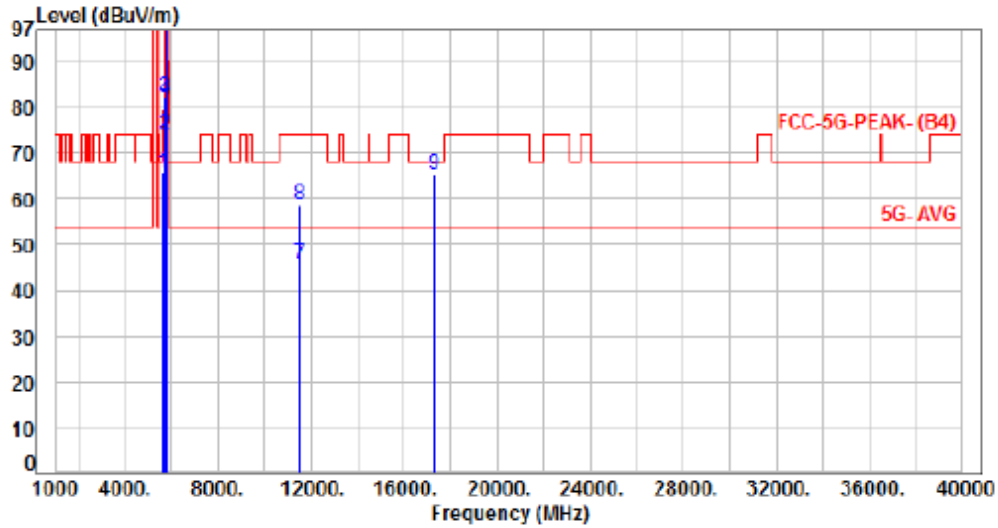
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5825.00 | 7.42 | 97.04 | 104.46 | 200.00 | -95.54 | Average | 138 | 23 | P |
| 2 | 5825.00 | 7.42 | 110.07 | 117.49 | 200.00 | -82.51 | Peak | 138 | 23 | P |
| 3 | 5850.00 | 7.43 | 76.88 | 84.31 | 122.20 | -37.89 | Peak | 138 | 23 | P |
| 4 | 5855.00 | 7.45 | 63.84 | 71.29 | 110.80 | -39.51 | Peak | 138 | 23 | P |
| 5 | 5875.00 | 7.54 | 58.77 | 66.31 | 105.20 | -38.89 | Peak | 138 | 23 | P |
| 6 | 5925.00 | 7.66 | 50.43 | 58.09 | 68.20 | -10.11 | Peak | 138 | 23 | P |
| 7 | 11650.00 | 17.99 | 28.74 | 46.73 | 54.00 | -7.27 | Average | 100 | 134 | P |
| 8 | 11650.00 | 17.99 | 41.69 | 59.68 | 74.00 | -14.32 | Peak | 100 | 134 | P |
| 9 | 17475.00 | 25.00 | 41.59 | 66.59 | 68.20 | -1.61 | Peak | 100 | 134 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 3, Band 4, CH151 | | : | |



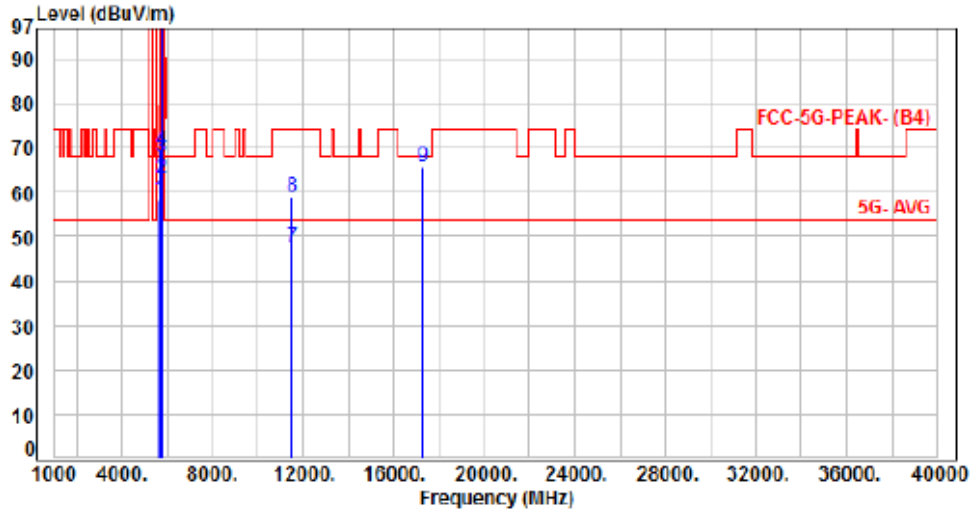
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 58.29 | 65.64 | 68.20 | -2.56 | Peak | 237 | 182 | P |
| 2 | 5700.00 | 7.37 | 66.92 | 74.29 | 105.20 | -30.91 | Peak | 237 | 182 | P |
| 3 | 5720.00 | 7.34 | 74.73 | 82.07 | 110.80 | -28.73 | Peak | 237 | 182 | P |
| 4 | 5725.00 | 7.33 | 74.46 | 81.79 | 122.20 | -40.41 | Peak | 237 | 182 | P |
| 5 | 5755.00 | 7.30 | 105.09 | 112.39 | 200.00 | -87.61 | Average | 237 | 182 | P |
| 6 | 5755.00 | 7.30 | 118.66 | 125.96 | 200.00 | -74.04 | Peak | 237 | 182 | P |
| 7 | 11510.00 | 17.70 | 27.85 | 45.55 | 54.00 | -8.45 | Average | 100 | 267 | P |
| 8 | 11510.00 | 17.70 | 40.78 | 58.48 | 74.00 | -15.52 | Peak | 100 | 267 | P |
| 9 | 17265.00 | 23.77 | 41.62 | 65.39 | 68.20 | -2.81 | Peak | 100 | 331 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 3, Band 4, CH151 | | : | |



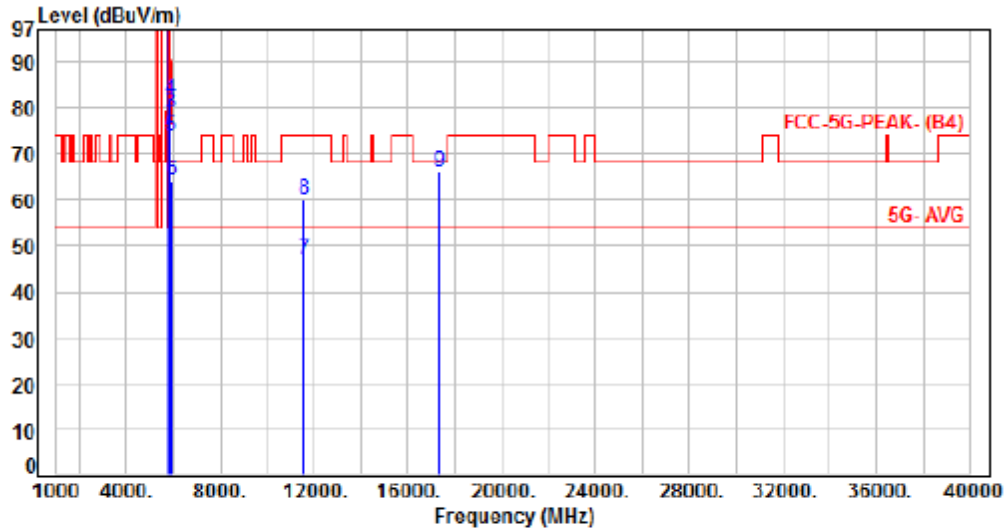
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 50.77 | 58.12 | 68.20 | -10.08 | Peak | 126 | 21 | P |
| 2 | 5700.00 | 7.37 | 55.58 | 62.95 | 105.20 | -42.25 | Peak | 126 | 21 | P |
| 3 | 5720.00 | 7.34 | 60.57 | 67.91 | 110.80 | -42.89 | Peak | 126 | 21 | P |
| 4 | 5725.00 | 7.33 | 61.90 | 69.23 | 122.20 | -52.97 | Peak | 126 | 21 | P |
| 5 | 5755.00 | 7.30 | 92.23 | 99.53 | 200.00 | -100.47 | Average | 126 | 21 | P |
| 6 | 5755.00 | 7.30 | 106.20 | 113.50 | 200.00 | -86.50 | Peak | 126 | 21 | P |
| 7 | 11510.00 | 17.70 | 29.99 | 47.69 | 54.00 | -6.31 | Average | 100 | 234 | P |
| 8 | 11510.00 | 17.70 | 41.27 | 58.97 | 74.00 | -15.03 | Peak | 100 | 234 | P |
| 9 | 17265.00 | 23.77 | 41.93 | 65.70 | 68.20 | -2.50 | Peak | 100 | 337 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 3, Band 4, CH159 | | : | |



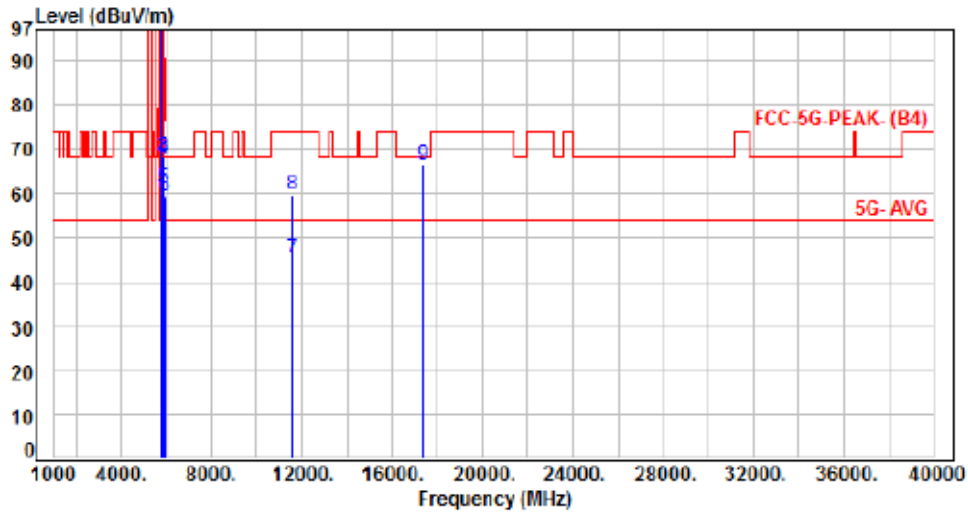
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5795.00 | 7.39 | 105.21 | 112.60 | 200.00 | -87.40 | Average | 246 | 178 | P |
| 2 | 5795.00 | 7.39 | 118.32 | 125.71 | 200.00 | -74.29 | Peak | 246 | 178 | P |
| 3 | 5850.00 | 7.43 | 71.40 | 78.83 | 122.20 | -43.37 | Peak | 246 | 178 | P |
| 4 | 5855.00 | 7.45 | 74.35 | 81.80 | 110.80 | -29.00 | Peak | 246 | 178 | P |
| 5 | 5875.00 | 7.54 | 66.31 | 73.85 | 105.20 | -31.35 | Peak | 246 | 178 | P |
| 6 | 5925.00 | 7.66 | 56.61 | 64.27 | 68.20 | -3.93 | Peak | 246 | 178 | P |
| 7 | 11590.00 | 17.86 | 28.95 | 46.81 | 54.00 | -7.19 | Average | 100 | 224 | P |
| 8 | 11590.00 | 17.86 | 42.40 | 60.26 | 74.00 | -13.74 | Peak | 100 | 224 | P |
| 9 | 17385.00 | 24.49 | 41.63 | 66.12 | 68.20 | -2.08 | Peak | 100 | 337 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 3, Band 4, CH159 | | : | |



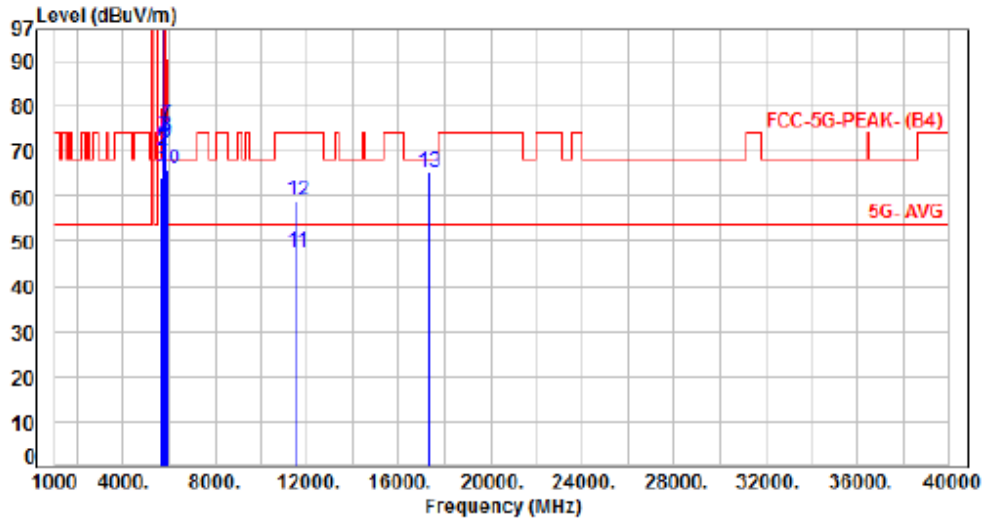
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5795.00 | 7.39 | 92.11 | 99.50 | 200.00 | -100.50 | Average | 131 | 20 | P |
| 2 | 5795.00 | 7.39 | 105.21 | 112.60 | 200.00 | -87.40 | Peak | 131 | 20 | P |
| 3 | 5850.00 | 7.43 | 60.71 | 68.14 | 122.20 | -54.05 | Peak | 131 | 20 | P |
| 4 | 5855.00 | 7.45 | 60.48 | 67.93 | 110.80 | -42.87 | Peak | 131 | 20 | P |
| 5 | 5875.00 | 7.54 | 53.66 | 61.20 | 105.20 | -44.00 | Peak | 131 | 20 | P |
| 6 | 5925.00 | 7.66 | 51.86 | 59.52 | 68.20 | -8.68 | Peak | 131 | 20 | P |
| 7 | 11590.00 | 17.85 | 27.65 | 45.51 | 54.00 | -8.49 | Average | 100 | 214 | P |
| 8 | 11590.00 | 17.85 | 41.73 | 59.59 | 74.00 | -14.41 | Peak | 100 | 214 | P |
| 9 | 17385.00 | 24.49 | 41.96 | 66.45 | 68.20 | -1.75 | Peak | 100 | 316 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 4, Band 4, CH155 | | : | |



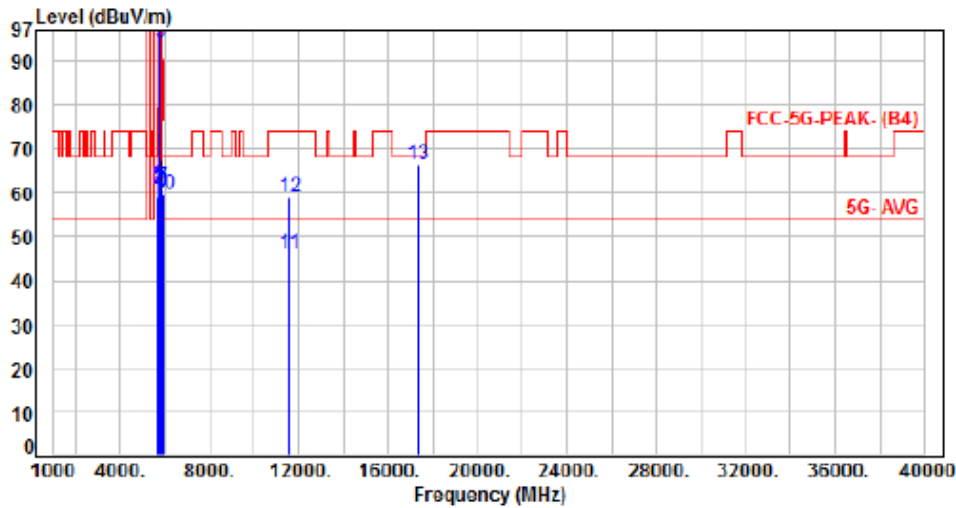
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 56.68 | 64.03 | 68.20 | -4.17 | Peak | 200 | 28 | P |
| 2 | 5700.00 | 7.37 | 62.58 | 69.95 | 105.20 | -35.25 | Peak | 200 | 28 | P |
| 3 | 5720.00 | 7.34 | 66.22 | 73.56 | 110.80 | -37.24 | Peak | 200 | 28 | P |
| 4 | 5725.00 | 7.33 | 65.09 | 72.42 | 122.20 | -49.78 | Peak | 200 | 28 | P |
| 5 | 5775.00 | 7.35 | 99.13 | 106.48 | 200.00 | -93.52 | Average | 200 | 28 | P |
| 6 | 5775.00 | 7.35 | 112.38 | 119.73 | 200.00 | -80.27 | Peak | 200 | 28 | P |
| 7 | 5850.00 | 7.43 | 68.52 | 75.95 | 122.20 | -46.25 | Peak | 200 | 28 | P |
| 8 | 5855.00 | 7.45 | 66.01 | 73.46 | 110.80 | -37.34 | Peak | 200 | 28 | P |
| 9 | 5875.00 | 7.54 | 64.49 | 72.03 | 105.20 | -33.17 | Peak | 200 | 28 | P |
| 10 | 5925.00 | 7.66 | 58.36 | 66.02 | 68.20 | -2.18 | Peak | 200 | 28 | P |
| 11 | 11550.00 | 17.79 | 29.63 | 47.42 | 54.00 | -6.58 | Average | 100 | 224 | P |
| 12 | 11550.00 | 17.79 | 41.15 | 58.94 | 74.00 | -15.06 | Peak | 100 | 224 | P |
| 13 | 17325.00 | 24.20 | 41.18 | 65.38 | 68.20 | -2.82 | Peak | 100 | 334 | P |

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



Non BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 4, Band 4, CH155 | | : | |



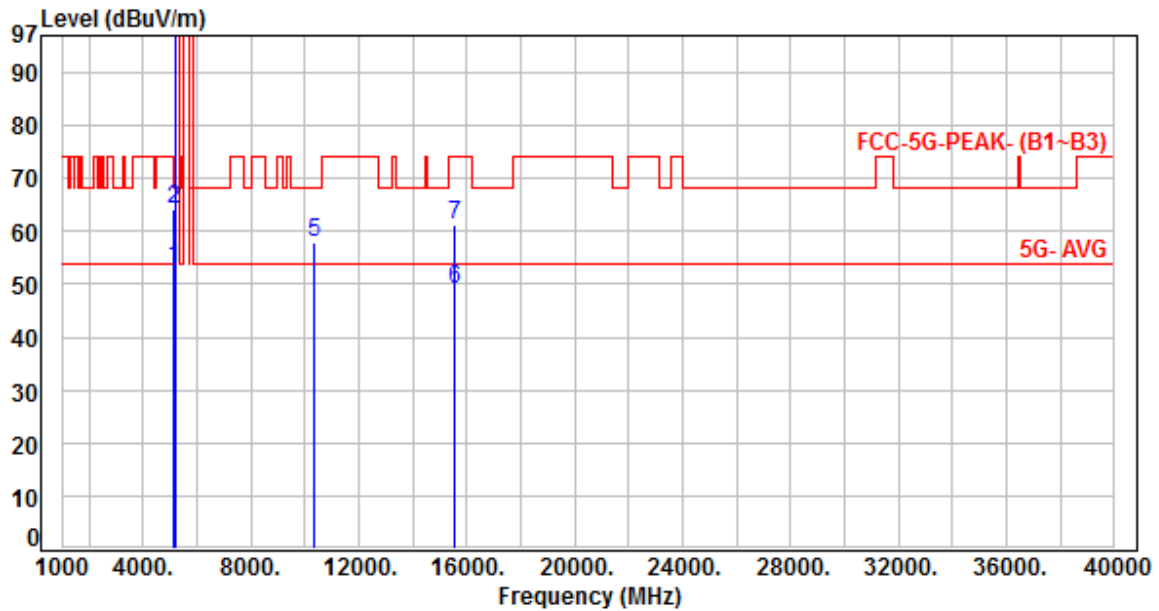
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 51.75 | 59.10 | 68.20 | -9.10 | Peak | 129 | 23 | P |
| 2 | 5700.00 | 7.37 | 53.41 | 60.78 | 105.20 | -44.42 | Peak | 129 | 23 | P |
| 3 | 5720.00 | 7.34 | 54.16 | 61.50 | 110.00 | -49.30 | Peak | 129 | 23 | P |
| 4 | 5725.00 | 7.33 | 55.39 | 62.72 | 122.20 | -59.48 | Peak | 129 | 23 | P |
| 5 | 5775.00 | 7.35 | 87.06 | 94.41 | 200.00 | -105.59 | Average | 129 | 23 | P |
| 6 | 5775.00 | 7.35 | 99.49 | 106.84 | 200.00 | -93.16 | Peak | 129 | 23 | P |
| 7 | 5850.00 | 7.43 | 53.93 | 61.36 | 122.20 | -60.84 | Peak | 129 | 23 | P |
| 8 | 5855.00 | 7.45 | 53.11 | 60.56 | 110.80 | -50.24 | Peak | 129 | 23 | P |
| 9 | 5875.00 | 7.54 | 52.70 | 60.24 | 105.20 | -44.96 | Peak | 129 | 23 | P |
| 10 | 5925.00 | 7.66 | 52.13 | 59.79 | 68.20 | -8.41 | Peak | 129 | 23 | P |
| 11 | 11550.00 | 17.79 | 28.45 | 46.24 | 54.00 | -7.76 | Average | 100 | 279 | P |
| 12 | 11550.00 | 17.79 | 41.14 | 58.93 | 74.00 | -15.07 | Peak | 100 | 279 | P |
| 13 | 17325.00 | 24.20 | 42.10 | 66.30 | 68.20 | -1.90 | Peak | 100 | 331 | P |

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



BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 5, Band 1, CH36 | | : | |



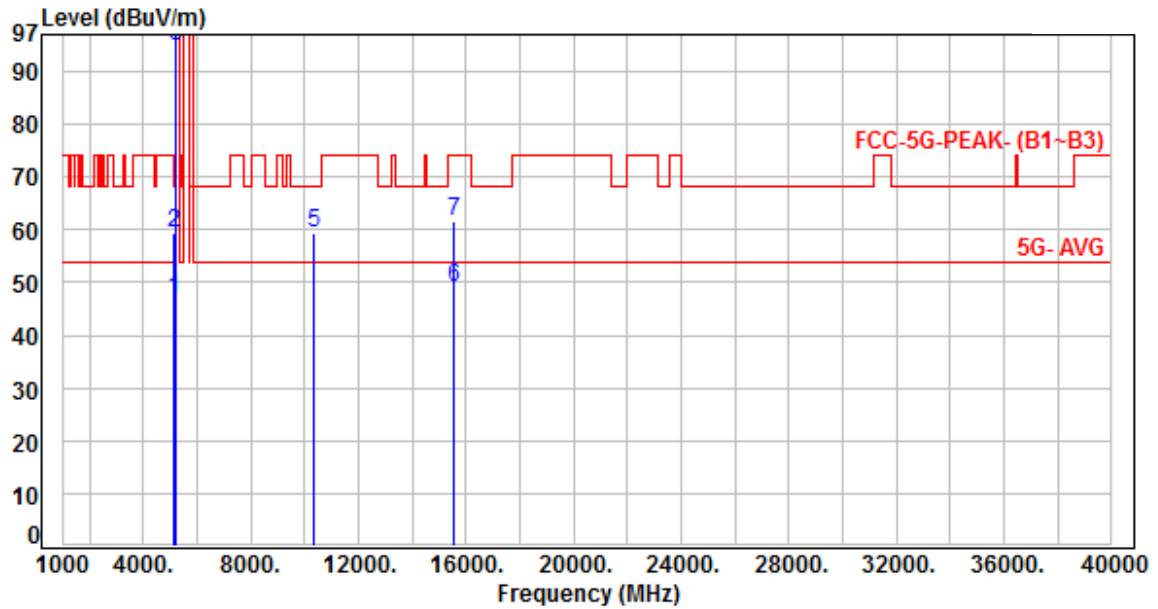
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 46.23 | 52.93 | 54.00 | -1.07 | Average | 154 | 35 | P |
| 2 | 5150.00 | 6.70 | 57.37 | 64.07 | 74.00 | -9.93 | Peak | 154 | 35 | P |
| 3 | 5180.00 | 6.85 | 104.88 | 111.73 | 200.00 | -88.27 | Average | 154 | 35 | P |
| 4 | 5180.00 | 6.85 | 117.23 | 124.08 | 200.00 | -75.92 | Peak | 154 | 35 | P |
| 5 | 10360.00 | 15.84 | 41.95 | 57.79 | 68.20 | -10.41 | Peak | 100 | 223 | P |
| 6 | 15540.00 | 19.60 | 29.46 | 49.06 | 54.00 | -4.94 | Average | 100 | 331 | P |
| 7 | 15540.00 | 19.60 | 41.74 | 61.34 | 74.00 | -12.66 | Peak | 100 | 331 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, Band 1, CH36 | | : |



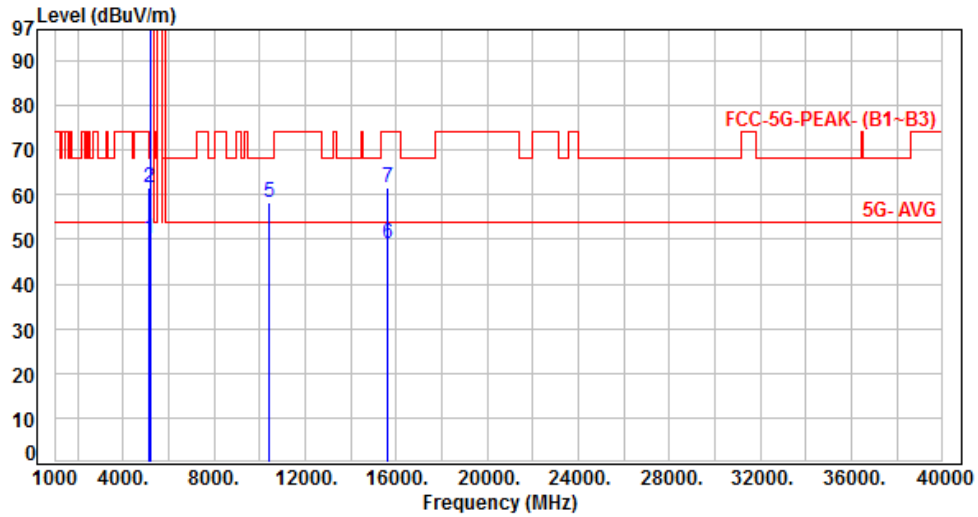
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 39.99 | 46.69 | 54.00 | -7.31 | Average | 173 | 18 | P |
| 2 | 5150.00 | 6.70 | 52.64 | 59.34 | 74.00 | -14.66 | Peak | 173 | 18 | P |
| 3 | 5180.00 | 6.85 | 87.83 | 94.68 | 200.00 | -105.32 | Average | 173 | 18 | P |
| 4 | 5180.00 | 6.85 | 99.03 | 105.88 | 200.00 | -94.12 | Peak | 173 | 18 | P |
| 5 | 10360.00 | 15.84 | 43.53 | 59.37 | 68.20 | -8.83 | Peak | 100 | 241 | P |
| 6 | 15540.00 | 19.60 | 29.46 | 49.06 | 54.00 | -4.94 | Average | 100 | 331 | P |
| 7 | 15540.00 | 19.60 | 42.15 | 61.75 | 74.00 | -12.25 | Peak | 100 | 331 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, Band 1, CH40 | | |



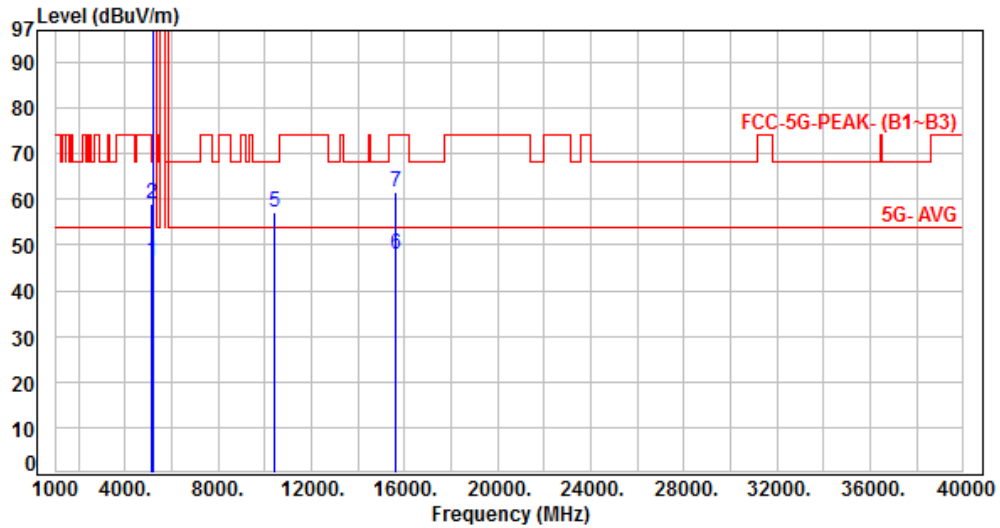
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 43.63 | 50.33 | 54.00 | -3.67 | Average | 159 | 329 | P |
| 2 | 5150.00 | 6.70 | 54.80 | 61.50 | 74.00 | -12.50 | Peak | 159 | 329 | P |
| 3 | 5200.00 | 6.95 | 106.96 | 113.91 | 200.00 | -86.09 | Average | 159 | 329 | P |
| 4 | 5200.00 | 6.95 | 117.88 | 124.83 | 200.00 | -75.17 | Peak | 159 | 329 | P |
| 5 | 10400.00 | 15.75 | 42.35 | 58.10 | 68.20 | -10.10 | Peak | 100 | 229 | P |
| 6 | 15600.00 | 19.55 | 29.47 | 49.02 | 54.00 | -4.98 | Average | 100 | 338 | P |
| 7 | 15600.00 | 19.55 | 41.89 | 61.44 | 74.00 | -12.56 | Peak | 100 | 338 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, Band 1, CH40 | | |



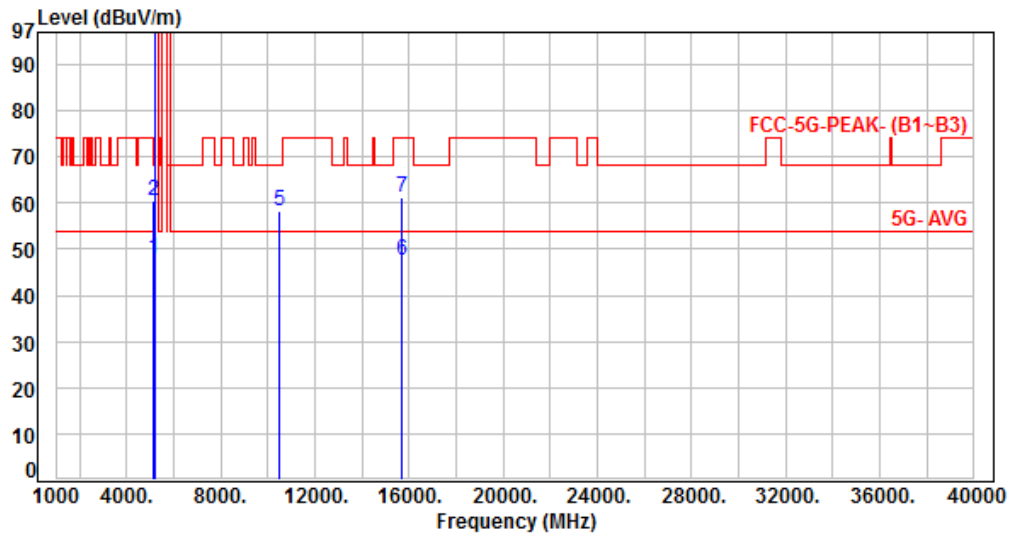
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 39.95 | 46.65 | 54.00 | -7.35 | Average | 236 | 24 | P |
| 2 | 5150.00 | 6.70 | 52.35 | 59.05 | 74.00 | -14.95 | Peak | 236 | 24 | P |
| 3 | 5200.00 | 6.95 | 90.40 | 97.35 | 200.00 | -102.65 | Average | 236 | 24 | P |
| 4 | 5200.00 | 6.95 | 101.95 | 108.90 | 200.00 | -91.10 | Peak | 236 | 24 | P |
| 5 | 10400.00 | 15.75 | 41.46 | 57.21 | 68.20 | -10.99 | Peak | 100 | 221 | P |
| 6 | 15600.00 | 19.55 | 28.56 | 48.11 | 54.00 | -5.89 | Average | 100 | 314 | P |
| 7 | 15600.00 | 19.55 | 42.17 | 61.72 | 74.00 | -12.28 | Peak | 100 | 314 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, Band 1, CH48 | | : |



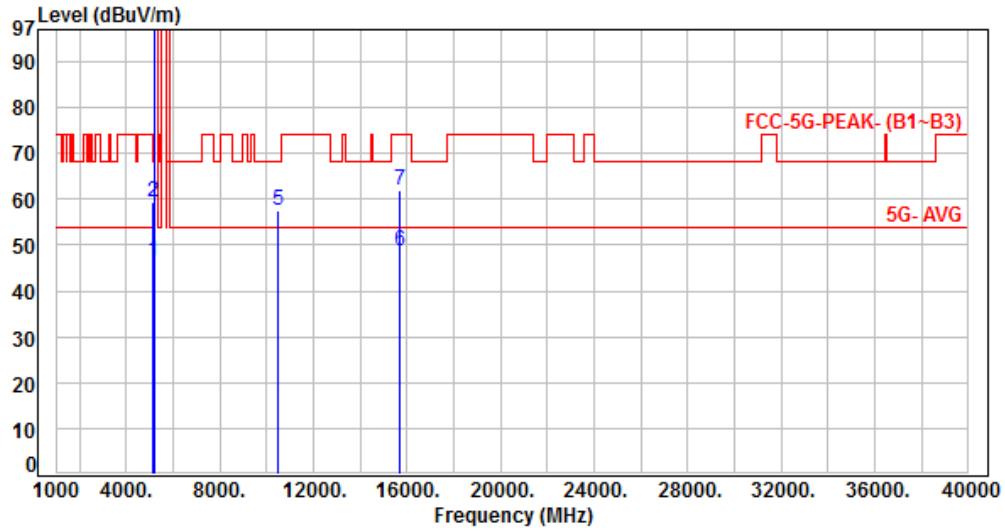
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 41.14 | 47.84 | 54.00 | -6.16 | Average | 162 | 335 | P |
| 2 | 5150.00 | 6.70 | 53.65 | 60.35 | 74.00 | -13.65 | Peak | 162 | 335 | P |
| 3 | 5240.00 | 7.00 | 107.60 | 114.60 | 200.00 | -85.40 | Average | 162 | 335 | P |
| 4 | 5240.00 | 7.00 | 118.79 | 125.79 | 200.00 | -74.21 | Peak | 162 | 335 | P |
| 5 | 10480.00 | 15.88 | 42.47 | 58.35 | 68.20 | -9.85 | Peak | 100 | 229 | P |
| 6 | 15720.00 | 19.16 | 28.46 | 47.62 | 54.00 | -6.38 | Average | 100 | 336 | P |
| 7 | 15720.00 | 19.16 | 41.96 | 61.12 | 74.00 | -12.88 | Peak | 100 | 336 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, Band 1, CH48 | | |



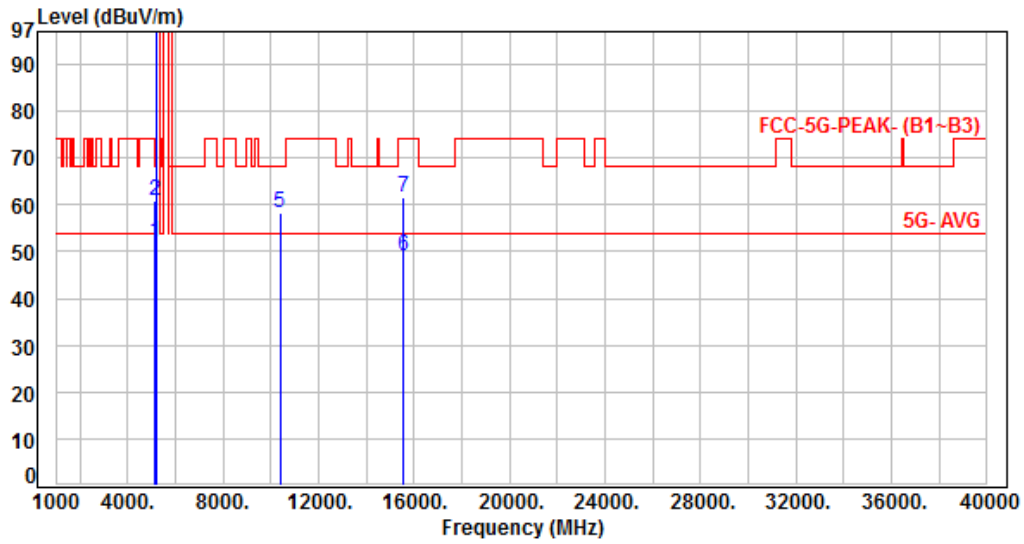
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 39.95 | 46.65 | 54.00 | -7.35 | Average | 100 | 261 | P |
| 2 | 5150.00 | 6.70 | 52.85 | 59.55 | 74.00 | -14.45 | Peak | 100 | 261 | P |
| 3 | 5240.00 | 7.00 | 89.02 | 96.02 | 200.00 | -103.98 | Average | 100 | 261 | P |
| 4 | 5240.00 | 7.00 | 99.55 | 106.55 | 200.00 | -93.45 | Peak | 100 | 261 | P |
| 5 | 10480.00 | 15.88 | 41.80 | 57.68 | 68.20 | -10.52 | Peak | 100 | 123 | P |
| 6 | 15720.00 | 19.16 | 29.46 | 48.62 | 54.00 | -5.38 | Average | 100 | 334 | P |
| 7 | 15720.00 | 19.16 | 42.68 | 61.84 | 74.00 | -12.16 | Peak | 100 | 334 | P |

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



BeamForming-Omni Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 6, Band 1, CH38 | | : | |



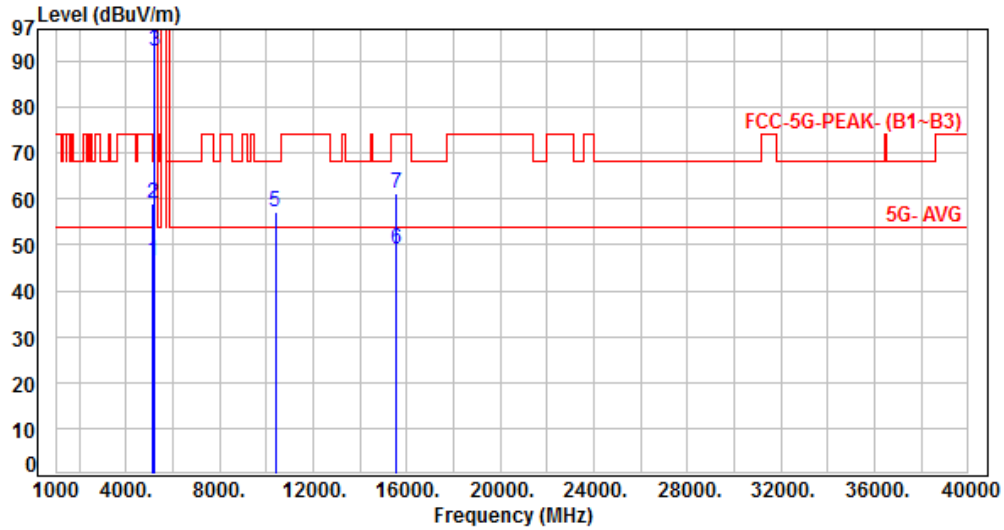
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.20 | 51.90 | 54.00 | -2.10 | Average | 165 | 319 | P |
| 2 | 5150.00 | 6.70 | 54.13 | 60.83 | 74.00 | -13.17 | Peak | 165 | 319 | P |
| 3 | 5190.00 | 6.90 | 99.88 | 106.78 | 200.00 | -93.22 | Average | 165 | 319 | P |
| 4 | 5190.00 | 6.90 | 110.70 | 117.60 | 200.00 | -82.40 | Peak | 165 | 319 | P |
| 5 | 10380.00 | 15.80 | 42.41 | 58.21 | 68.20 | -9.99 | Peak | 100 | 214 | P |
| 6 | 15570.00 | 19.56 | 29.45 | 49.01 | 54.00 | -4.99 | Average | 100 | 338 | P |
| 7 | 15570.00 | 19.56 | 41.89 | 61.45 | 74.00 | -12.55 | Peak | 100 | 338 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, Band 1, CH38 | | : |



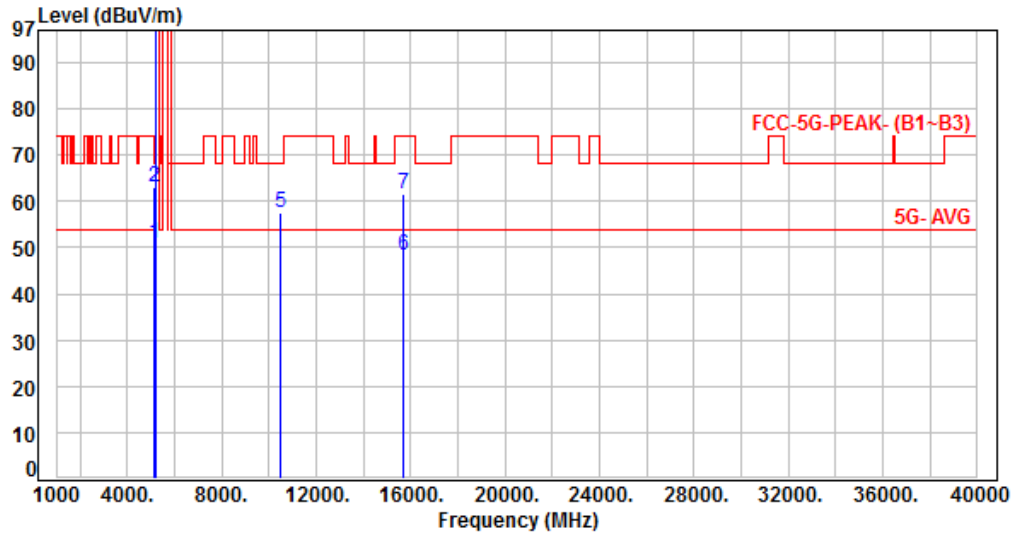
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 39.92 | 46.62 | 54.00 | -7.38 | Average | 220 | 18 | P |
| 2 | 5150.00 | 6.70 | 52.21 | 58.91 | 74.00 | -15.09 | Peak | 220 | 18 | P |
| 3 | 5190.00 | 6.90 | 85.40 | 92.30 | 200.00 | -107.70 | Average | 220 | 18 | P |
| 4 | 5190.00 | 6.90 | 94.22 | 101.12 | 200.00 | -98.88 | Peak | 220 | 18 | P |
| 5 | 10380.00 | 15.80 | 41.46 | 57.26 | 68.20 | -10.94 | Peak | 100 | 216 | P |
| 6 | 15570.00 | 19.56 | 29.63 | 49.19 | 54.00 | -4.81 | Average | 100 | 313 | P |
| 7 | 15570.00 | 19.56 | 41.68 | 61.24 | 74.00 | -12.76 | Peak | 100 | 313 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, Band 1, CH46 | | : |



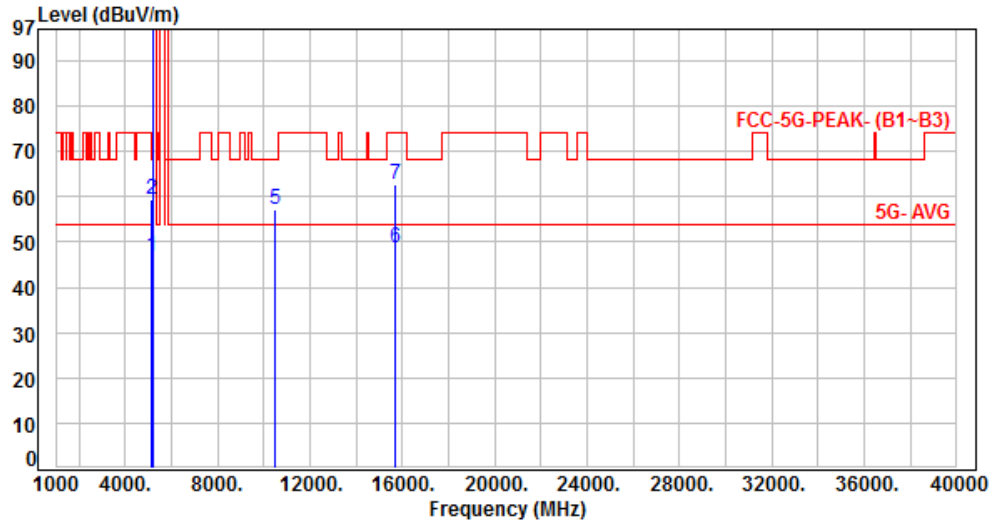
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 44.28 | 50.98 | 54.00 | -3.02 | Average | 151 | 34 | P |
| 2 | 5150.00 | 6.70 | 56.22 | 62.92 | 74.00 | -11.08 | Peak | 151 | 34 | P |
| 3 | 5230.00 | 6.99 | 110.23 | 117.22 | 200.00 | -82.78 | Average | 151 | 34 | P |
| 4 | 5230.00 | 6.99 | 120.34 | 127.33 | 200.00 | -72.67 | Peak | 151 | 34 | P |
| 5 | 10460.00 | 15.77 | 41.80 | 57.57 | 68.20 | -10.63 | Peak | 100 | 227 | P |
| 6 | 15690.00 | 19.35 | 28.78 | 48.13 | 54.00 | -5.87 | Average | 100 | 227 | P |
| 7 | 15690.00 | 19.35 | 42.33 | 61.68 | 74.00 | -12.32 | Peak | 100 | 338 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, Band 1, CH46 | | : |



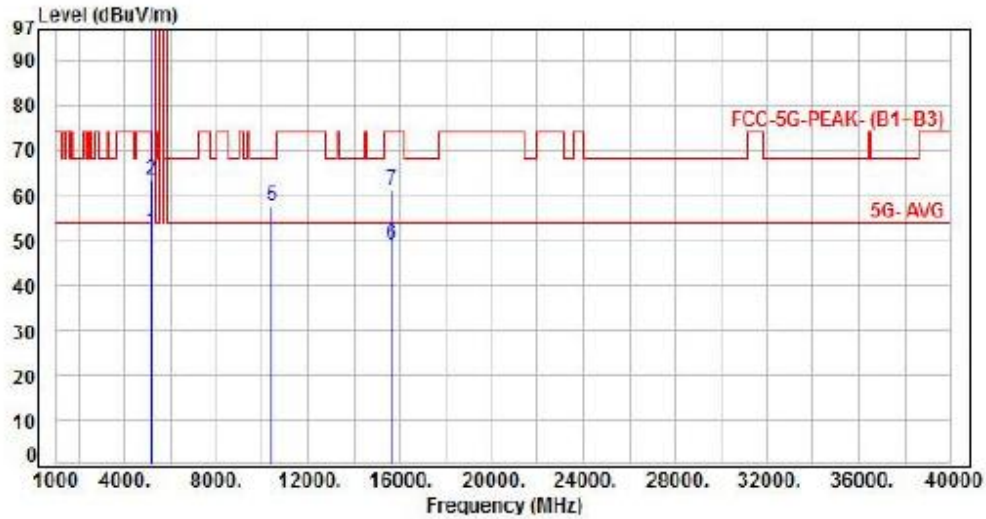
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 40.02 | 46.72 | 54.00 | -7.28 | Average | 227 | 46 | P |
| 2 | 5150.00 | 6.70 | 52.63 | 59.33 | 74.00 | -14.67 | Peak | 227 | 46 | P |
| 3 | 5230.00 | 6.99 | 91.55 | 98.54 | 200.00 | -101.46 | Average | 227 | 46 | P |
| 4 | 5230.00 | 6.99 | 101.98 | 108.97 | 200.00 | -91.03 | Peak | 227 | 46 | P |
| 5 | 10460.00 | 15.77 | 41.54 | 57.31 | 68.20 | -10.89 | Peak | 100 | 226 | P |
| 6 | 15690.00 | 19.35 | 29.45 | 48.80 | 54.00 | -5.20 | Average | 100 | 246 | P |
| 7 | 15690.00 | 19.35 | 43.31 | 62.66 | 74.00 | -11.34 | Peak | 100 | 246 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 7, Band 1, CH42 | | |



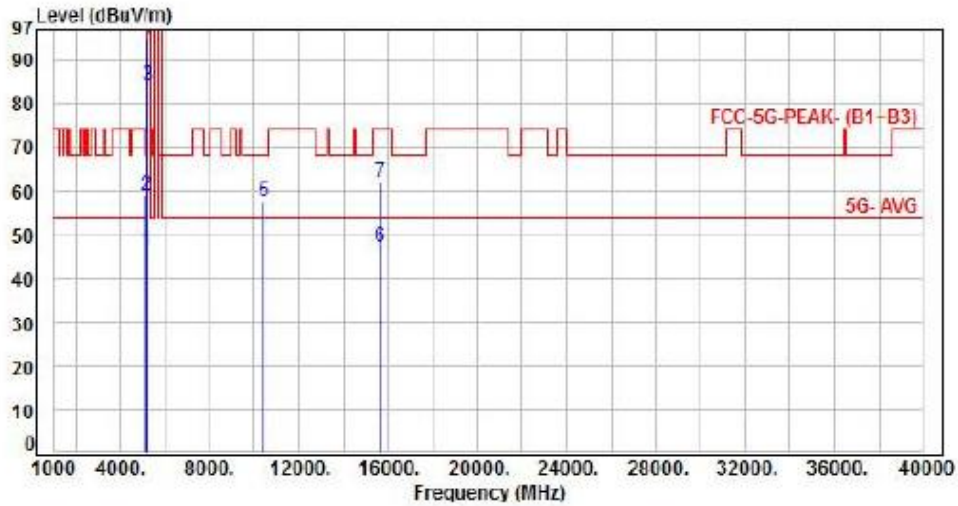
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.20 | 51.90 | 54.00 | -2.10 | Average | 143 | 33 | P |
| 2 | 5150.00 | 6.70 | 56.74 | 63.44 | 74.00 | -10.56 | Peak | 143 | 33 | P |
| 3 | 5210.00 | 6.97 | 96.52 | 103.49 | 200.00 | -96.51 | Average | 143 | 33 | P |
| 4 | 5210.00 | 6.97 | 105.87 | 112.84 | 200.00 | -87.16 | Peak | 143 | 33 | P |
| 5 | 10420.00 | 15.74 | 41.92 | 57.66 | 68.20 | -10.54 | Peak | 100 | 225 | P |
| 6 | 15630.00 | 19.48 | 29.66 | 49.14 | 54.00 | -4.86 | Average | 100 | 331 | P |
| 7 | 15630.00 | 19.48 | 41.74 | 61.22 | 74.00 | -12.78 | Peak | 100 | 331 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 7, Band 1, CH42 | | |



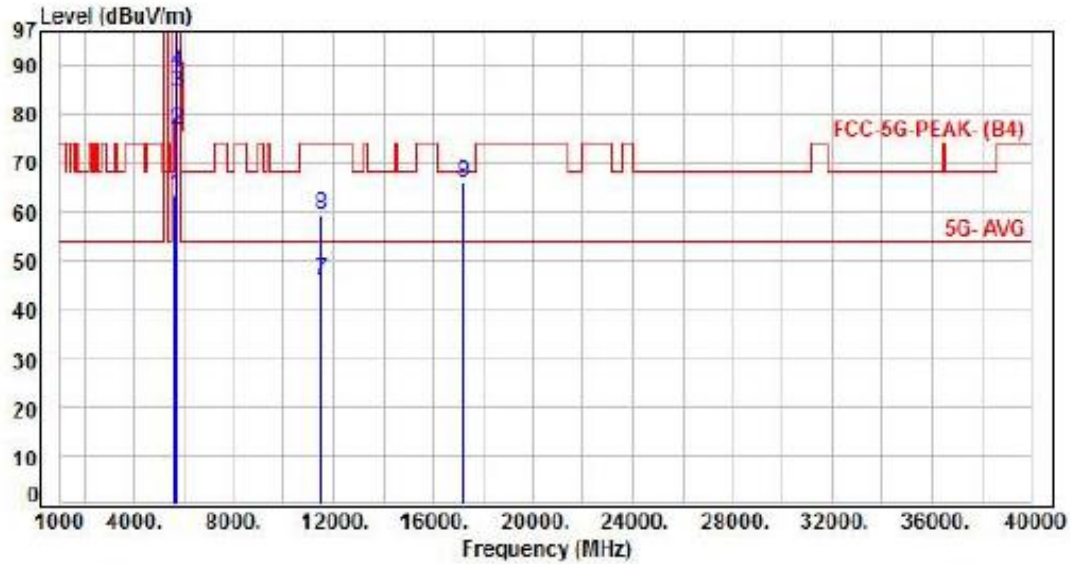
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 39.92 | 46.62 | 54.00 | -7.38 | Average | 229 | 16 | P |
| 2 | 5150.00 | 6.70 | 52.13 | 58.83 | 74.00 | -15.17 | Peak | 229 | 16 | P |
| 3 | 5210.00 | 6.97 | 77.07 | 84.04 | 200.00 | -115.96 | Average | 229 | 16 | P |
| 4 | 5210.00 | 6.97 | 87.79 | 94.76 | 200.00 | -105.24 | Peak | 229 | 16 | P |
| 5 | 10420.00 | 15.74 | 41.72 | 57.46 | 68.20 | -10.74 | Peak | 100 | 297 | P |
| 6 | 15630.00 | 19.48 | 27.64 | 47.12 | 54.00 | -6.88 | Average | 100 | 331 | P |
| 7 | 15630.00 | 19.48 | 42.63 | 62.11 | 74.00 | -11.89 | Peak | 100 | 331 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, Band 4, CH149 | | : |



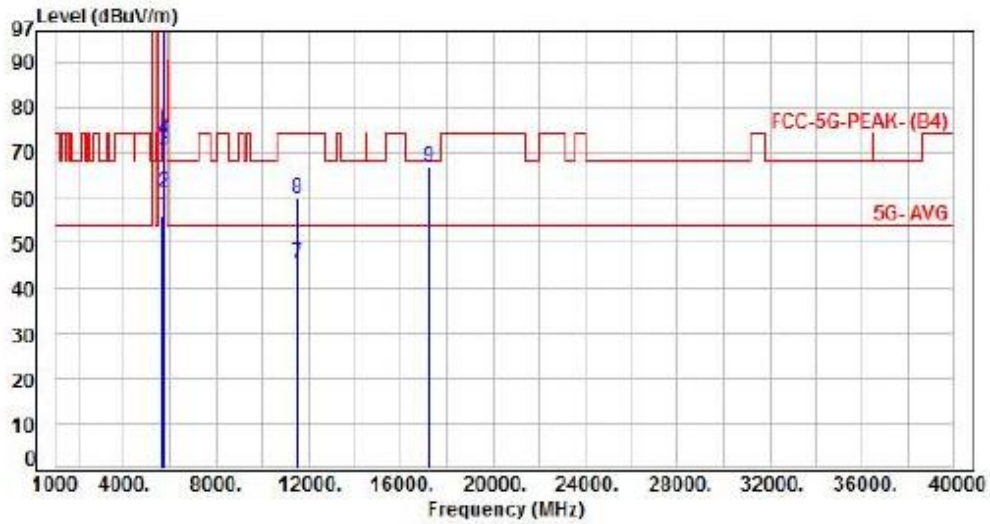
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 55.92 | 63.27 | 66.20 | -4.93 | Peak | 230 | 181 | P |
| 2 | 5700.00 | 7.37 | 69.21 | 76.58 | 105.20 | -28.62 | Peak | 230 | 181 | P |
| 3 | 5720.00 | 7.34 | 77.08 | 84.42 | 110.80 | -26.38 | Peak | 230 | 181 | P |
| 4 | 5725.00 | 7.33 | 81.12 | 88.45 | 122.20 | -33.75 | Peak | 230 | 181 | P |
| 5 | 5745.00 | 7.30 | 106.36 | 113.66 | 200.00 | -86.34 | Average | 230 | 181 | P |
| 6 | 5745.00 | 7.30 | 119.02 | 126.32 | 200.00 | -73.68 | Peak | 230 | 181 | P |
| 7 | 11490.00 | 17.63 | 28.46 | 46.09 | 54.00 | -7.91 | Average | 100 | 337 | P |
| 8 | 11490.00 | 17.63 | 41.82 | 59.45 | 74.00 | -14.55 | Peak | 100 | 337 | P |
| 9 | 17235.00 | 23.62 | 42.39 | 66.01 | 66.20 | -2.19 | Peak | 100 | 243 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, Band 4, CH149 | | : |



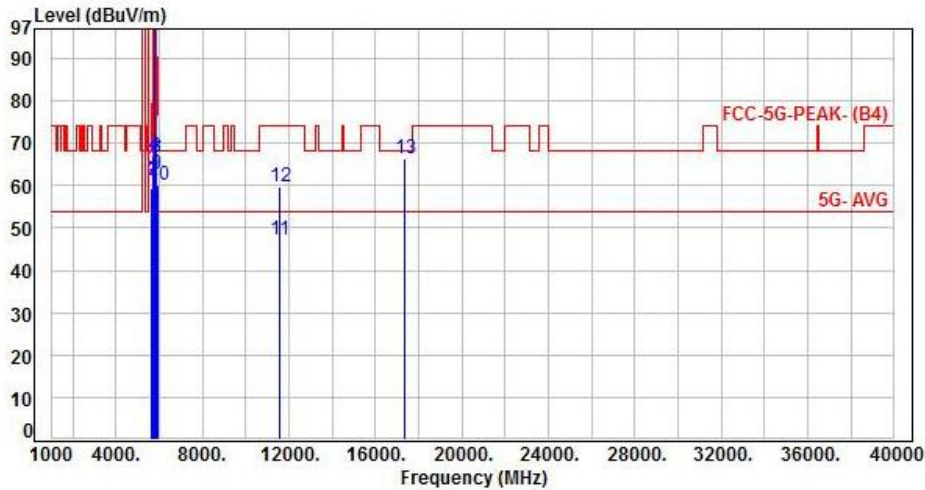
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 48.75 | 56.10 | 68.20 | -12.10 | Peak | 127 | 20 | P |
| 2 | 5700.00 | 7.37 | 53.72 | 61.09 | 105.20 | -44.11 | Peak | 127 | 20 | P |
| 3 | 5720.00 | 7.34 | 63.29 | 70.63 | 110.80 | -40.17 | Peak | 127 | 20 | P |
| 4 | 5725.00 | 7.33 | 65.71 | 73.04 | 122.20 | -49.16 | Peak | 127 | 20 | P |
| 5 | 5745.00 | 7.30 | 95.02 | 102.32 | 200.00 | -97.68 | Average | 127 | 20 | P |
| 6 | 5745.00 | 7.30 | 106.74 | 114.04 | 200.00 | -85.96 | Peak | 127 | 20 | P |
| 7 | 11490.00 | 17.63 | 27.64 | 45.27 | 54.00 | -8.73 | Average | 100 | 338 | P |
| 8 | 11490.00 | 17.63 | 42.09 | 59.72 | 74.00 | -14.28 | Peak | 100 | 338 | P |
| 9 | 17235.00 | 23.62 | 43.11 | 66.73 | 68.20 | -1.47 | Peak | 100 | 114 | P |

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



BeamForming-Omni Antenna

| | | | | | |
|-----------|---|-----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 5, Band 4, CH157 | | : | |



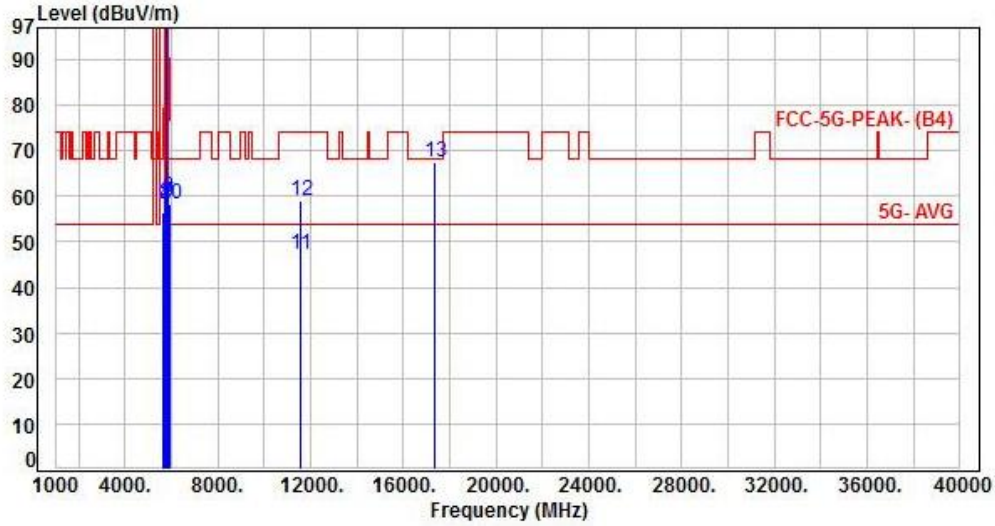
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 51.89 | 59.24 | 68.20 | -8.96 | Peak | 207 | 31 | P |
| 2 | 5700.00 | 7.37 | 54.00 | 61.37 | 105.20 | -43.83 | Peak | 207 | 31 | P |
| 3 | 5720.00 | 7.34 | 56.58 | 63.92 | 110.80 | -46.88 | Peak | 207 | 31 | P |
| 4 | 5725.00 | 7.33 | 59.93 | 67.26 | 122.20 | -54.94 | Peak | 207 | 31 | P |
| 5 | 5785.00 | 7.37 | 107.12 | 114.49 | 200.00 | -85.51 | Average | 207 | 31 | P |
| 6 | 5785.00 | 7.37 | 118.28 | 125.65 | 200.00 | -74.35 | Peak | 207 | 31 | P |
| 7 | 5850.00 | 7.43 | 58.69 | 66.12 | 122.20 | -56.08 | Peak | 207 | 31 | P |
| 8 | 5855.00 | 7.45 | 59.38 | 66.83 | 110.80 | -43.97 | Peak | 207 | 31 | P |
| 9 | 5875.00 | 7.54 | 55.05 | 62.59 | 105.20 | -42.61 | Peak | 207 | 31 | P |
| 10 | 5925.00 | 7.66 | 52.42 | 60.08 | 68.20 | -8.12 | Peak | 207 | 31 | P |
| 11 | 11570.00 | 17.83 | 29.46 | 47.29 | 54.00 | -6.71 | Average | 100 | 167 | P |
| 12 | 11570.00 | 17.83 | 41.79 | 59.62 | 74.00 | -14.38 | Peak | 100 | 167 | P |
| 13 | 17355.00 | 24.42 | 42.13 | 66.55 | 68.20 | -1.65 | Peak | 100 | 334 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, Band 4, CH157 | | : |



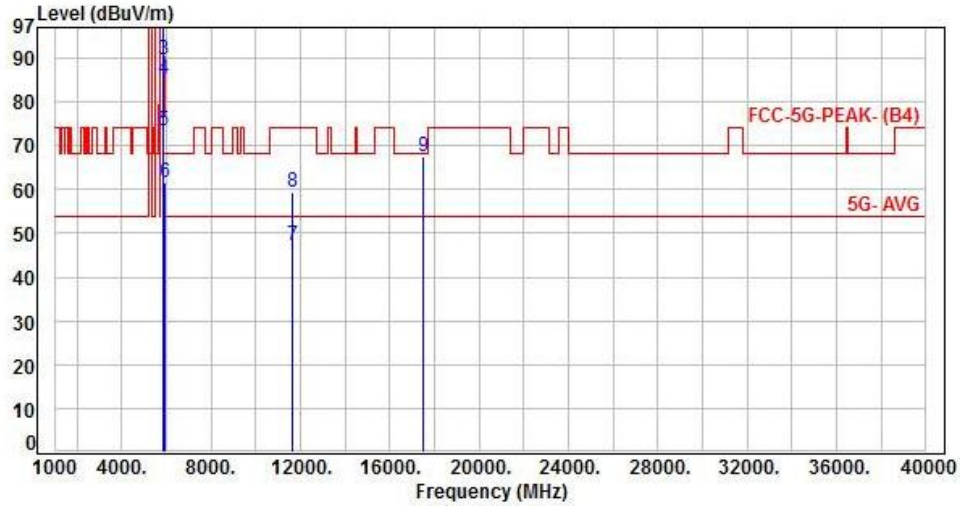
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 49.00 | 56.35 | 68.20 | -11.85 | Peak | 126 | 24 | P |
| 2 | 5700.00 | 7.37 | 50.86 | 58.23 | 105.20 | -46.97 | Peak | 126 | 24 | P |
| 3 | 5720.00 | 7.34 | 50.80 | 58.14 | 110.80 | -52.66 | Peak | 126 | 24 | P |
| 4 | 5725.00 | 7.33 | 51.08 | 58.41 | 122.20 | -63.79 | Peak | 126 | 24 | P |
| 5 | 5785.00 | 7.37 | 95.73 | 103.10 | 200.00 | -96.90 | Average | 126 | 24 | P |
| 6 | 5785.00 | 7.37 | 106.59 | 113.96 | 200.00 | -86.04 | Peak | 126 | 24 | P |
| 7 | 5850.00 | 7.43 | 51.10 | 58.53 | 122.20 | -63.67 | Peak | 126 | 24 | P |
| 8 | 5855.00 | 7.45 | 52.18 | 59.63 | 110.80 | -51.17 | Peak | 126 | 24 | P |
| 9 | 5875.00 | 7.54 | 51.13 | 58.67 | 105.20 | -46.53 | Peak | 126 | 24 | P |
| 10 | 5925.00 | 7.66 | 50.47 | 58.13 | 68.20 | -10.07 | Peak | 126 | 24 | P |
| 11 | 11570.00 | 17.83 | 29.44 | 47.27 | 54.00 | -6.73 | Average | 100 | 256 | P |
| 12 | 11570.00 | 17.83 | 41.10 | 58.93 | 74.00 | -15.07 | Peak | 100 | 256 | P |
| 13 | 17355.00 | 24.42 | 43.01 | 67.43 | 68.20 | -0.77 | Peak | 100 | 314 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, Band 4, CH165 | | : |



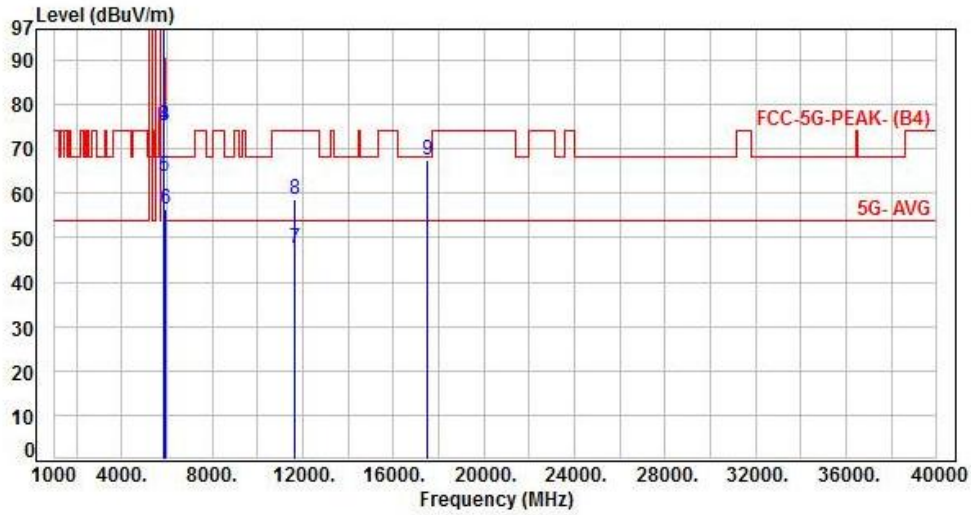
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5825.00 | 7.42 | 106.24 | 113.66 | 200.00 | -86.34 | Average | 207 | 31 | P |
| 2 | 5825.00 | 7.42 | 117.92 | 125.34 | 200.00 | -74.66 | Peak | 207 | 31 | P |
| 3 | 5850.00 | 7.43 | 82.17 | 89.60 | 122.20 | -32.60 | Peak | 207 | 31 | P |
| 4 | 5855.00 | 7.45 | 77.73 | 85.18 | 110.80 | -25.62 | Peak | 207 | 31 | P |
| 5 | 5875.00 | 7.54 | 65.85 | 73.39 | 105.20 | -31.81 | Peak | 207 | 31 | P |
| 6 | 5925.00 | 7.66 | 53.87 | 61.53 | 68.20 | -6.67 | Peak | 207 | 31 | P |
| 7 | 11650.00 | 17.99 | 29.31 | 47.30 | 54.00 | -6.70 | Average | 100 | 314 | P |
| 8 | 11650.00 | 17.99 | 41.38 | 59.37 | 74.00 | -14.63 | Peak | 100 | 314 | P |
| 9 | 17475.00 | 25.00 | 42.31 | 67.31 | 68.20 | -0.89 | Peak | 100 | 214 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, Band 4, CH165 | | : |



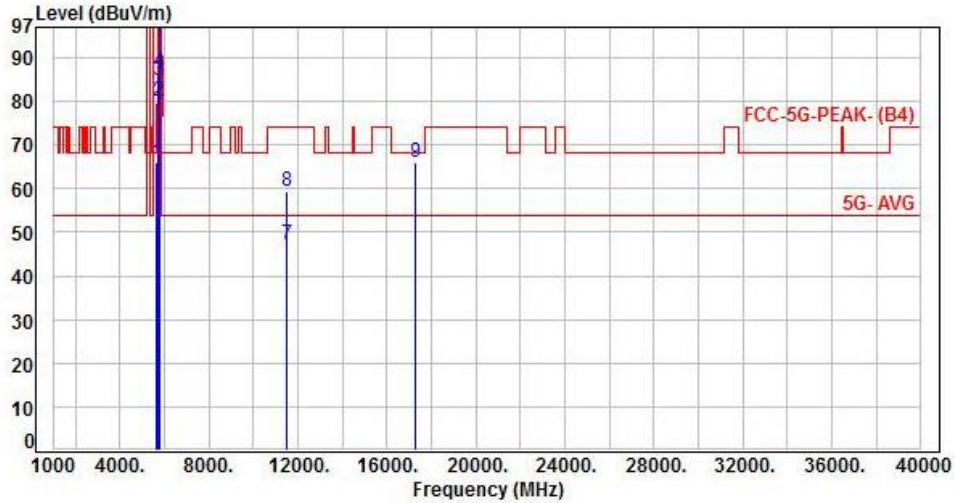
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5825.00 | 7.42 | 93.96 | 101.38 | 200.00 | -98.62 | Average | 123 | 23 | P |
| 2 | 5825.00 | 7.42 | 106.28 | 113.70 | 200.00 | -86.30 | Peak | 123 | 23 | P |
| 3 | 5850.00 | 7.43 | 67.95 | 75.38 | 122.20 | -46.82 | Peak | 123 | 23 | P |
| 4 | 5855.00 | 7.45 | 67.76 | 75.21 | 110.80 | -35.59 | Peak | 123 | 23 | P |
| 5 | 5875.00 | 7.54 | 56.14 | 63.68 | 105.20 | -41.52 | Peak | 123 | 23 | P |
| 6 | 5925.00 | 7.66 | 48.61 | 56.27 | 68.20 | -11.93 | Peak | 123 | 23 | P |
| 7 | 11650.00 | 17.99 | 29.66 | 47.65 | 54.00 | -6.35 | Average | 100 | 231 | P |
| 8 | 11650.00 | 17.99 | 40.56 | 58.55 | 74.00 | -15.45 | Peak | 100 | 231 | P |
| 9 | 17475.00 | 25.00 | 42.36 | 67.36 | 68.20 | -0.84 | Peak | 100 | 354 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, Band 4, CH151 | | |



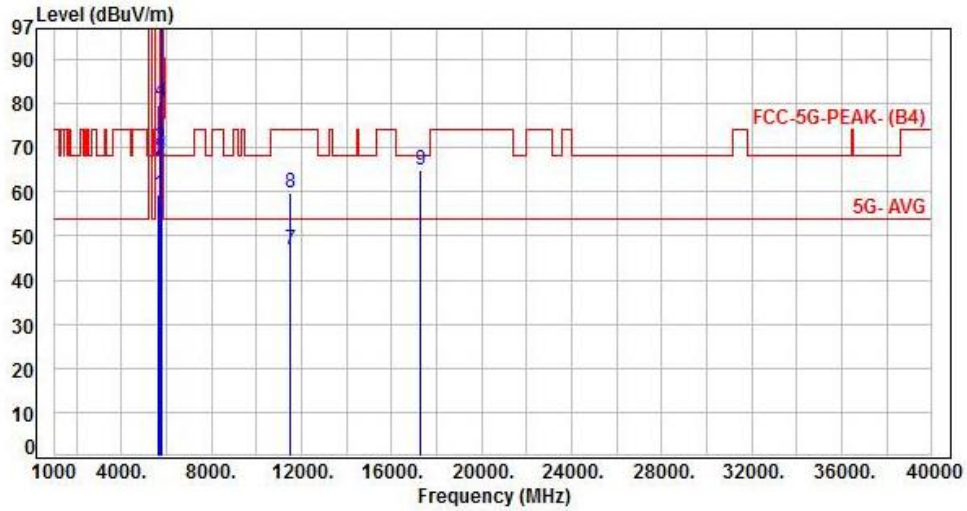
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 58.75 | 66.10 | 68.20 | -2.10 | Peak | 202 | 33 | P |
| 2 | 5700.00 | 7.37 | 72.80 | 80.17 | 105.20 | -25.03 | Peak | 202 | 33 | P |
| 3 | 5720.00 | 7.34 | 77.50 | 84.84 | 110.80 | -25.96 | Peak | 202 | 33 | P |
| 4 | 5725.00 | 7.33 | 79.24 | 86.57 | 122.20 | -35.63 | Peak | 202 | 33 | P |
| 5 | 5755.00 | 7.30 | 101.98 | 109.28 | 200.00 | -90.72 | Average | 202 | 33 | P |
| 6 | 5755.00 | 7.30 | 116.58 | 123.88 | 200.00 | -76.12 | Peak | 202 | 33 | P |
| 7 | 11510.00 | 17.70 | 29.46 | 47.16 | 54.00 | -6.84 | Average | 100 | 167 | P |
| 8 | 11510.00 | 17.70 | 41.55 | 59.25 | 74.00 | -14.75 | Peak | 100 | 167 | P |
| 9 | 17265.00 | 23.77 | 42.16 | 65.93 | 68.20 | -2.27 | Peak | 100 | 345 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, Band 4, CH151 | | : |



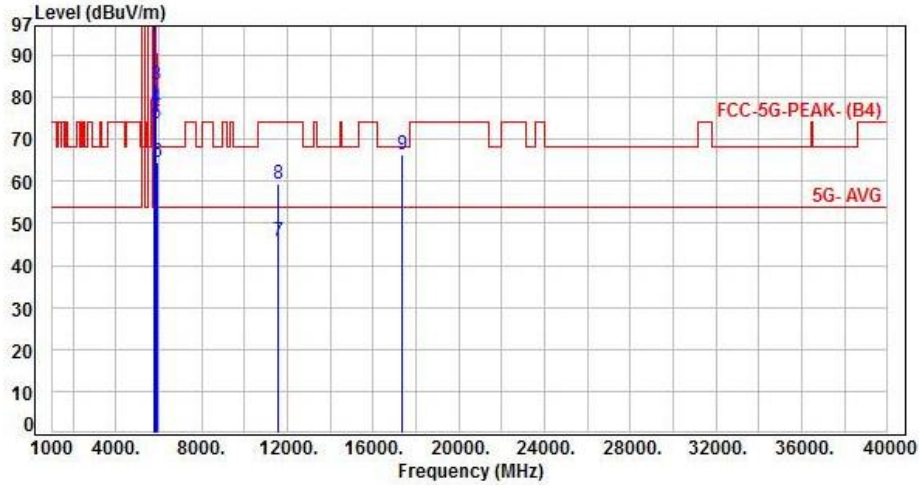
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 52.04 | 59.39 | 68.20 | -8.81 | Peak | 118 | 20 | P |
| 2 | 5700.00 | 7.37 | 59.67 | 67.04 | 105.20 | -38.16 | Peak | 118 | 20 | P |
| 3 | 5720.00 | 7.34 | 62.71 | 70.05 | 110.80 | -40.75 | Peak | 118 | 20 | P |
| 4 | 5725.00 | 7.33 | 73.14 | 80.47 | 122.20 | -41.73 | Peak | 118 | 20 | P |
| 5 | 5755.00 | 7.30 | 95.46 | 102.76 | 200.00 | -97.24 | Average | 118 | 20 | P |
| 6 | 5755.00 | 7.30 | 104.27 | 111.57 | 200.00 | -88.43 | Peak | 118 | 20 | P |
| 7 | 11510.00 | 17.70 | 28.97 | 46.67 | 54.00 | -7.33 | Average | 100 | 226 | P |
| 8 | 11510.00 | 17.70 | 42.16 | 59.86 | 74.00 | -14.14 | Peak | 100 | 226 | P |
| 9 | 17265.00 | 23.77 | 41.13 | 64.90 | 68.20 | -3.30 | Peak | 100 | 214 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, Band 4, CH159 | | : |



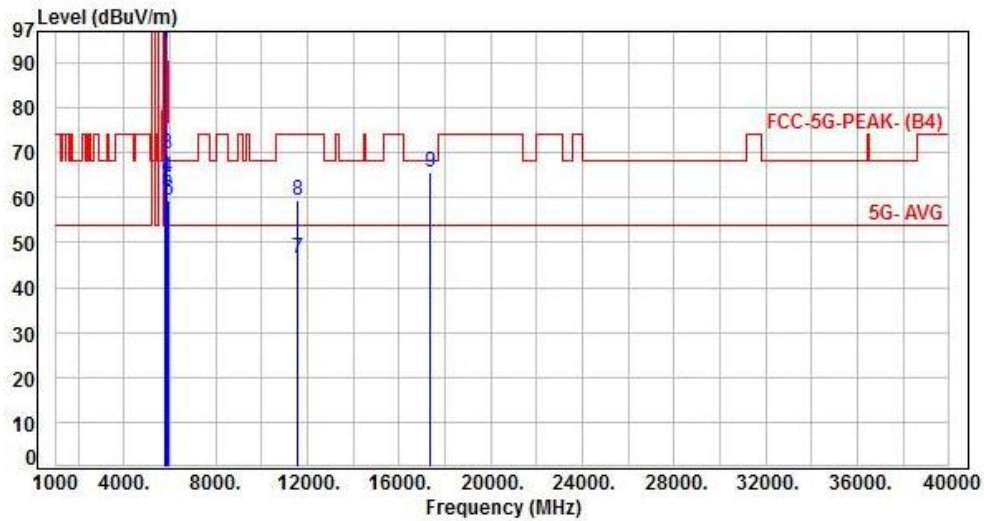
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5795.00 | 7.39 | 98.58 | 105.97 | 200.00 | -94.03 | Average | 205 | 24 | P |
| 2 | 5795.00 | 7.39 | 111.77 | 119.16 | 200.00 | -80.84 | Peak | 205 | 24 | P |
| 3 | 5850.00 | 7.43 | 75.51 | 82.94 | 122.20 | -39.26 | Peak | 205 | 24 | P |
| 4 | 5855.00 | 7.45 | 70.04 | 77.49 | 110.80 | -33.31 | Peak | 205 | 24 | P |
| 5 | 5875.00 | 7.54 | 66.35 | 73.89 | 105.20 | -31.31 | Peak | 205 | 24 | P |
| 6 | 5925.00 | 7.66 | 56.83 | 64.49 | 68.20 | -3.71 | Peak | 205 | 24 | P |
| 7 | 11590.00 | 17.86 | 27.95 | 45.81 | 54.00 | -8.19 | Average | 100 | 234 | P |
| 8 | 11590.00 | 17.86 | 41.58 | 59.44 | 74.00 | -14.56 | Peak | 100 | 234 | P |
| 9 | 17385.00 | 24.49 | 42.01 | 66.50 | 68.20 | -1.70 | Peak | 100 | 331 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, Band 4, CH159 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5795.00 | 7.39 | 86.97 | 94.36 | 200.00 | -105.64 | Average | 100 | 21 | P |
| 2 | 5795.00 | 7.39 | 98.17 | 105.56 | 200.00 | -94.44 | Peak | 100 | 21 | P |
| 3 | 5850.00 | 7.43 | 62.40 | 69.83 | 122.20 | -52.37 | Peak | 100 | 21 | P |
| 4 | 5855.00 | 7.45 | 57.24 | 64.69 | 110.80 | -46.11 | Peak | 100 | 21 | P |
| 5 | 5875.00 | 7.54 | 53.99 | 61.53 | 105.20 | -43.67 | Peak | 100 | 21 | P |
| 6 | 5925.00 | 7.66 | 51.64 | 59.30 | 68.20 | -8.90 | Peak | 100 | 21 | P |
| 7 | 11590.00 | 17.86 | 28.47 | 46.33 | 54.00 | -7.67 | Average | 100 | 214 | P |
| 8 | 11590.00 | 17.86 | 41.65 | 59.51 | 74.00 | -14.49 | Peak | 100 | 214 | P |
| 9 | 17385.00 | 24.49 | 41.15 | 65.64 | 68.20 | -2.56 | Peak | 100 | 312 | P |

Note: Level=Reading+Factor

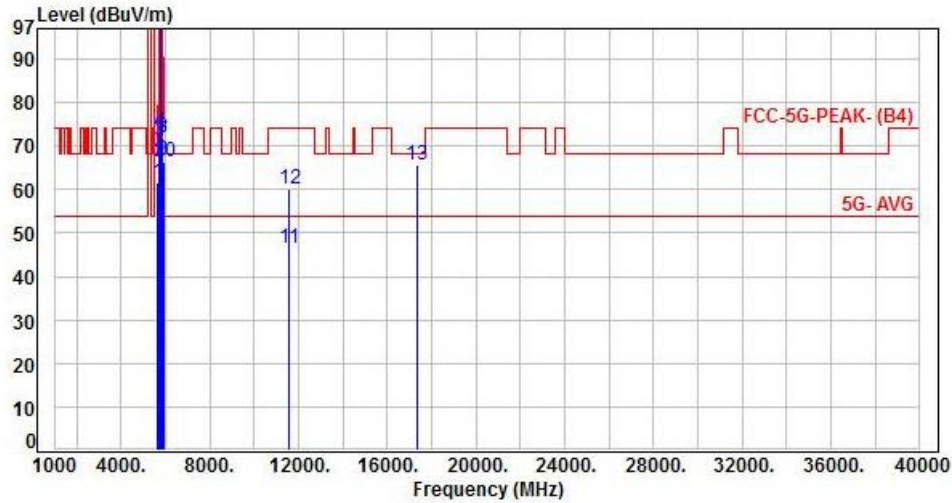
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 7, Band 4, CH155 | | |



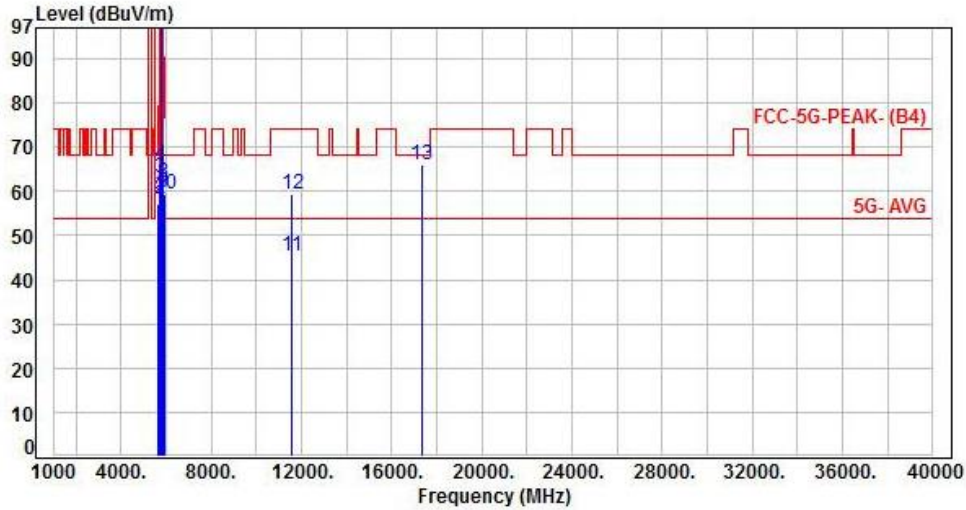
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 54.39 | 61.74 | 68.20 | -6.46 | Peak | 189 | 28 | P |
| 2 | 5700.00 | 7.37 | 58.88 | 66.25 | 105.20 | -38.95 | Peak | 189 | 28 | P |
| 3 | 5720.00 | 7.34 | 63.67 | 71.01 | 110.80 | -39.79 | Peak | 189 | 28 | P |
| 4 | 5725.00 | 7.33 | 65.95 | 73.28 | 122.20 | -48.92 | Peak | 189 | 28 | P |
| 5 | 5775.00 | 7.35 | 92.96 | 100.31 | 200.00 | -99.69 | Average | 189 | 28 | P |
| 6 | 5775.00 | 7.35 | 102.46 | 109.81 | 200.00 | -90.19 | Peak | 189 | 28 | P |
| 7 | 5850.00 | 7.43 | 63.91 | 71.34 | 122.20 | -50.86 | Peak | 189 | 28 | P |
| 8 | 5855.00 | 7.45 | 64.63 | 72.08 | 110.80 | -38.72 | Peak | 189 | 28 | P |
| 9 | 5875.00 | 7.54 | 59.15 | 66.69 | 105.20 | -38.51 | Peak | 189 | 28 | P |
| 10 | 5925.00 | 7.66 | 58.68 | 66.34 | 68.20 | -1.86 | Peak | 189 | 28 | P |
| 11 | 11550.00 | 17.79 | 28.63 | 46.42 | 54.00 | -7.58 | Average | 100 | 134 | P |
| 12 | 11550.00 | 17.79 | 42.44 | 60.23 | 74.00 | -13.77 | Peak | 100 | 134 | P |
| 13 | 17325.00 | 24.20 | 41.31 | 65.51 | 68.20 | -2.69 | Peak | 100 | 343 | P |

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



BeamForming-Omni Antenna

| | | | |
|-----------|-------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 7, Band 4, CH155 | | : |



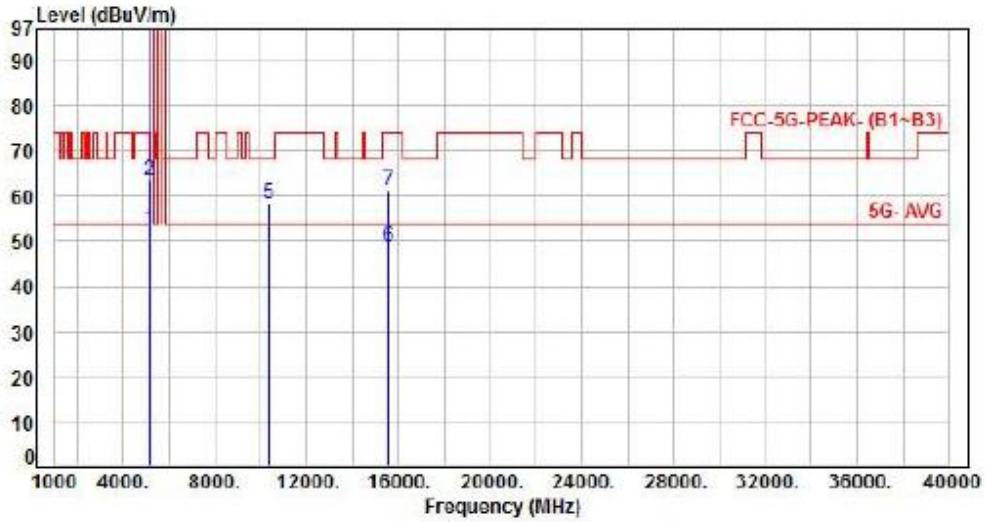
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5650.00 | 7.35 | 49.96 | 57.31 | 68.20 | -10.89 | Peak | 126 | 22 | P |
| 2 | 5700.00 | 7.37 | 50.96 | 58.33 | 105.20 | -46.87 | Peak | 126 | 22 | P |
| 3 | 5720.00 | 7.34 | 55.90 | 63.24 | 110.80 | -47.56 | Peak | 126 | 22 | P |
| 4 | 5725.00 | 7.33 | 58.57 | 65.90 | 122.20 | -56.30 | Peak | 126 | 22 | P |
| 5 | 5775.00 | 7.35 | 88.93 | 96.28 | 200.00 | -103.72 | Average | 126 | 22 | P |
| 6 | 5775.00 | 7.35 | 98.98 | 106.33 | 200.00 | -93.67 | Peak | 126 | 22 | P |
| 7 | 5850.00 | 7.43 | 51.59 | 59.02 | 122.20 | -63.18 | Peak | 126 | 22 | P |
| 8 | 5855.00 | 7.45 | 54.33 | 61.78 | 110.80 | -49.02 | Peak | 126 | 22 | P |
| 9 | 5875.00 | 7.54 | 52.15 | 59.69 | 105.20 | -45.51 | Peak | 126 | 22 | P |
| 10 | 5925.00 | 7.66 | 51.80 | 59.46 | 68.20 | -8.74 | Peak | 126 | 22 | P |
| 11 | 11550.00 | 17.79 | 27.63 | 45.42 | 54.00 | -8.58 | Average | 100 | 216 | P |
| 12 | 11550.00 | 17.79 | 41.52 | 59.31 | 74.00 | -14.69 | Peak | 100 | 216 | P |
| 13 | 17325.00 | 24.20 | 41.97 | 66.17 | 68.20 | -2.03 | Peak | 100 | 249 | P |

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



Non BeamForming-Sector Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, Band 1, CH36 | | : |



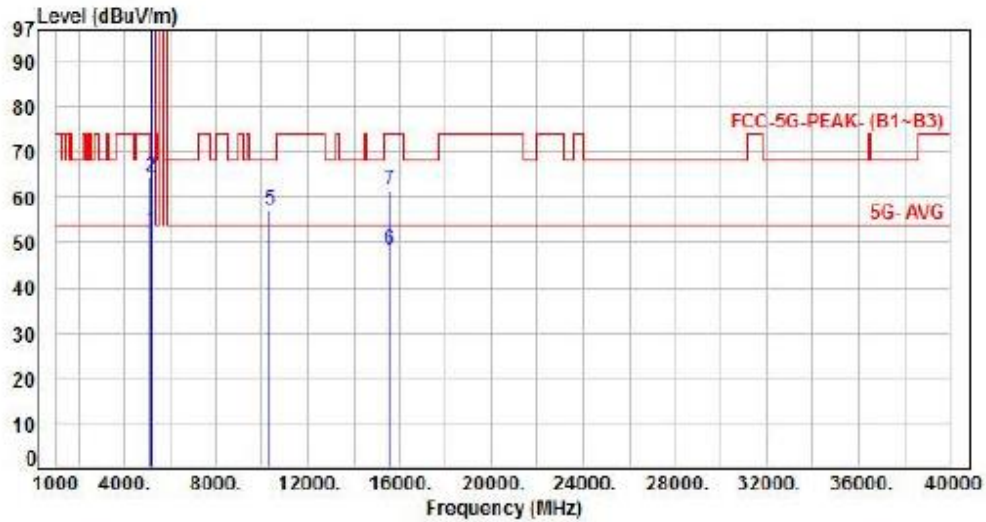
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 46.12 | 52.82 | 54.00 | -1.18 | Average | 159 | 320 | P |
| 2 | 5150.00 | 6.70 | 56.77 | 63.47 | 74.00 | -10.53 | Peak | 159 | 320 | P |
| 3 | 5180.00 | 6.85 | 110.33 | 117.18 | 200.00 | -82.82 | Average | 159 | 320 | P |
| 4 | 5180.00 | 6.85 | 120.05 | 126.90 | 200.00 | -73.10 | Peak | 159 | 320 | P |
| 5 | 10360.00 | 15.84 | 42.37 | 58.21 | 68.20 | -9.99 | Peak | 100 | 314 | P |
| 6 | 15540.00 | 19.60 | 28.97 | 48.57 | 54.00 | -5.43 | Average | 100 | 256 | P |
| 7 | 15540.00 | 19.60 | 41.47 | 61.07 | 74.00 | -12.93 | Peak | 100 | 256 | P |

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



Non BeamForming-Sector Antenna

| | | | |
|-----------|------------------------|-----------|--------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 1, Band 1, CH36 | | : |



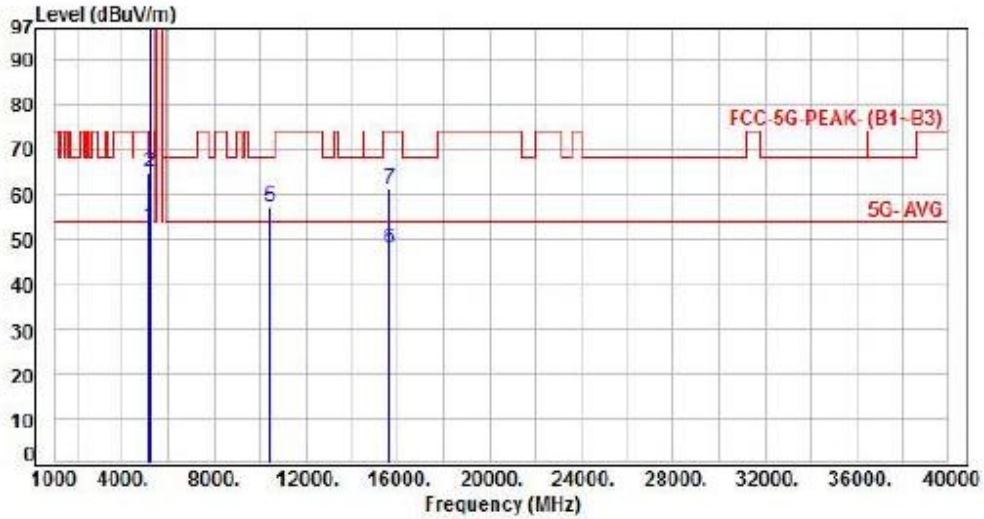
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 46.09 | 52.79 | 54.00 | -1.21 | Average | 159 | 308 | P |
| 2 | 5150.00 | 6.70 | 57.72 | 64.42 | 74.00 | -9.58 | Peak | 159 | 308 | P |
| 3 | 5180.00 | 6.85 | 109.21 | 116.06 | 200.00 | -83.94 | Average | 159 | 308 | P |
| 4 | 5180.00 | 6.85 | 116.61 | 125.66 | 200.00 | -74.34 | Peak | 159 | 308 | P |
| 5 | 10360.00 | 15.84 | 41.42 | 57.26 | 66.20 | -10.94 | Peak | 100 | 221 | P |
| 6 | 15540.00 | 19.60 | 28.65 | 48.25 | 54.00 | -5.75 | Average | 100 | 346 | P |
| 7 | 15540.00 | 19.60 | 42.13 | 61.73 | 74.00 | -12.27 | Peak | 100 | 346 | P |

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



Non BeamForming-Sector Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, Band 1, CH40 | | : |



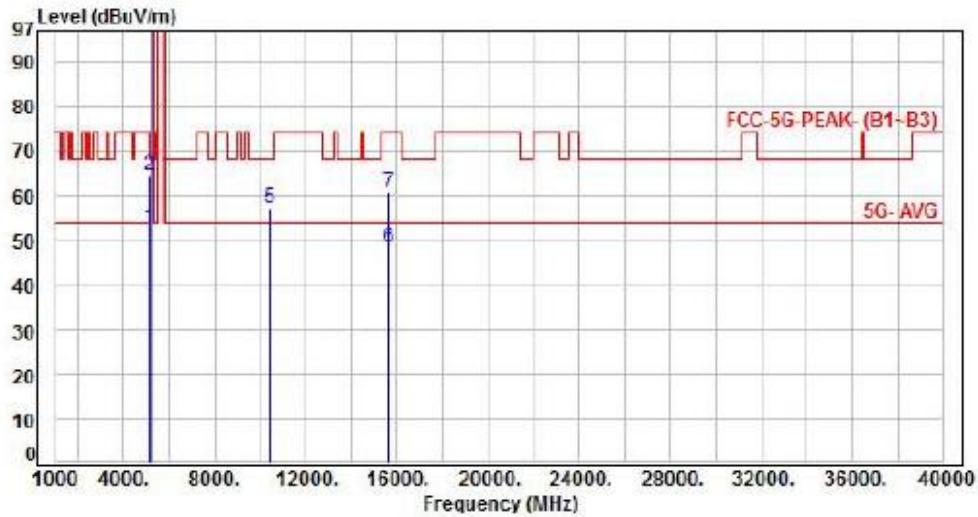
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.95 | 52.65 | 54.00 | -1.35 | Average | 157 | 315 | P |
| 2 | 5150.00 | 6.70 | 58.13 | 64.83 | 74.00 | -9.17 | Peak | 157 | 315 | P |
| 3 | 5200.00 | 6.95 | 112.40 | 119.35 | 200.00 | -80.65 | Average | 157 | 315 | P |
| 4 | 5200.00 | 6.95 | 122.20 | 129.15 | 200.00 | -70.85 | Peak | 157 | 315 | P |
| 5 | 10400.00 | 15.75 | 41.26 | 57.01 | 68.20 | -11.19 | Peak | 100 | 213 | P |
| 6 | 15600.00 | 19.55 | 28.46 | 48.01 | 54.00 | -5.99 | Average | 100 | 346 | P |
| 7 | 15600.00 | 19.55 | 41.62 | 61.17 | 74.00 | -12.83 | Peak | 100 | 346 | P |

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



Non BeamForming-Sector Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 1, Band 1, CH40 | | : | |



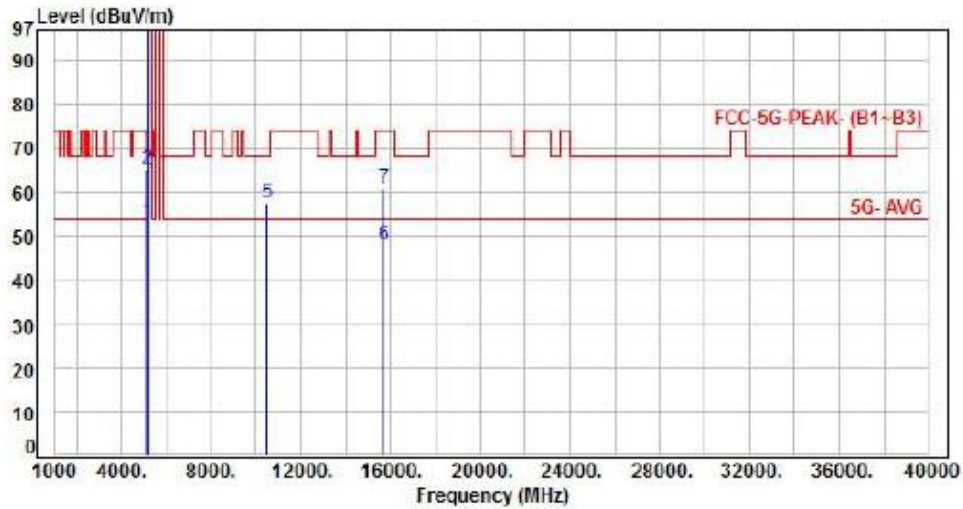
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.91 | 52.61 | 54.00 | -1.39 | Average | 157 | 322 | P |
| 2 | 5150.00 | 6.70 | 57.71 | 64.41 | 74.00 | -9.59 | Peak | 157 | 322 | P |
| 3 | 5200.00 | 6.95 | 110.54 | 117.49 | 200.00 | -82.51 | Average | 157 | 322 | P |
| 4 | 5200.00 | 6.95 | 121.35 | 128.30 | 200.00 | -71.70 | Peak | 157 | 322 | P |
| 5 | 10400.00 | 15.75 | 41.39 | 57.14 | 68.20 | -11.06 | Peak | 100 | 226 | P |
| 6 | 15600.00 | 19.55 | 28.64 | 48.19 | 54.00 | -5.81 | Average | 100 | 64 | P |
| 7 | 15600.00 | 19.55 | 41.33 | 60.88 | 74.00 | -13.12 | Peak | 100 | 64 | P |

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



Non BeamForming-Sector Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, Band 1, CH48 | | : |



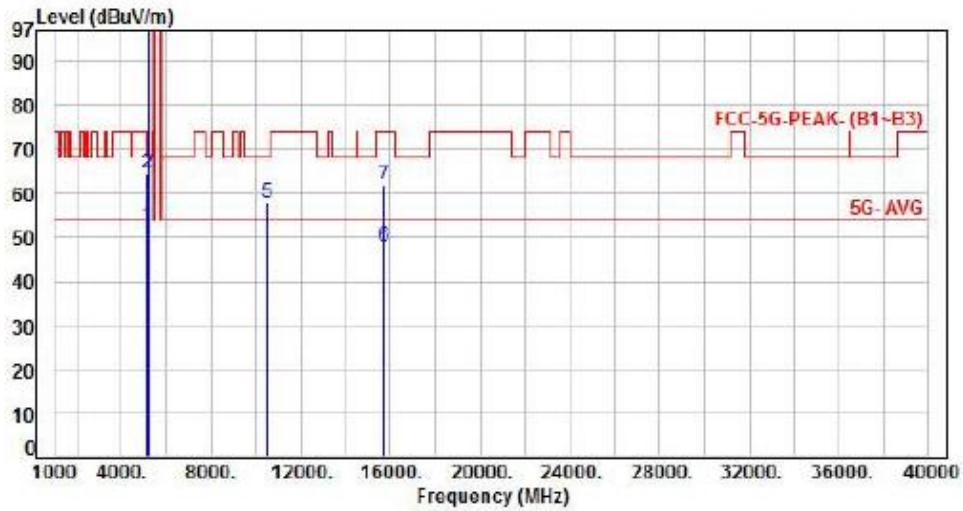
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 46.20 | 52.90 | 54.00 | -1.02 | Average | 158 | 320 | P |
| 2 | 5150.00 | 6.70 | 58.62 | 65.32 | 74.00 | -8.68 | Peak | 158 | 320 | P |
| 3 | 5240.00 | 7.00 | 111.52 | 118.52 | 200.00 | -81.48 | Average | 158 | 320 | P |
| 4 | 5240.00 | 7.00 | 121.57 | 128.57 | 200.00 | -71.43 | Peak | 158 | 320 | P |
| 5 | 10480.00 | 15.88 | 41.67 | 57.55 | 68.20 | -10.65 | Peak | 100 | 112 | P |
| 6 | 15720.00 | 19.16 | 28.64 | 47.80 | 54.00 | -6.20 | Average | 100 | 234 | P |
| 7 | 15720.00 | 19.16 | 41.88 | 61.04 | 74.00 | -12.96 | Peak | 100 | 234 | P |

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



Non BeamForming-Sector Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 1, Band 1, CH48 | | : | |



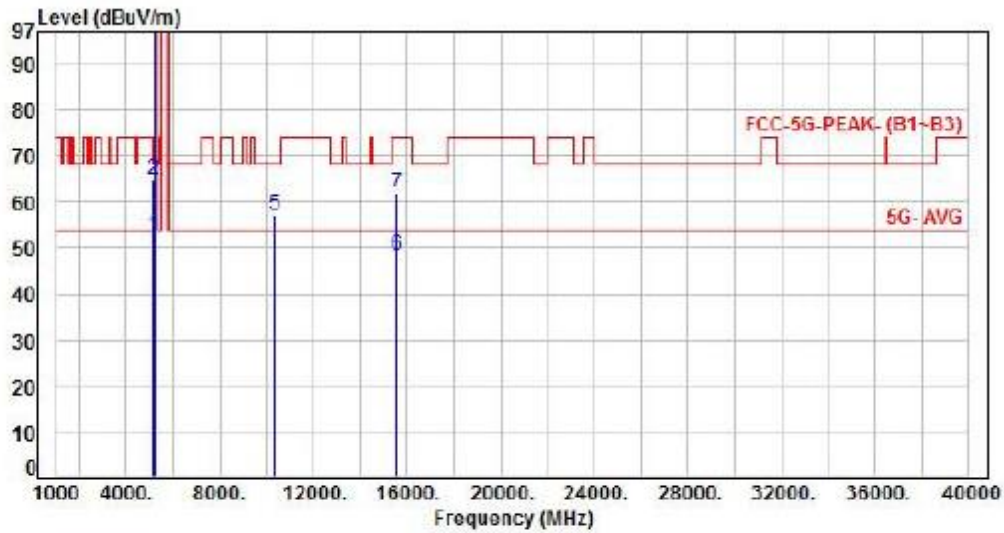
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 46.12 | 52.82 | 54.00 | -1.18 | Average | 159 | 315 | P |
| 2 | 5150.00 | 6.70 | 57.84 | 64.54 | 74.00 | -9.46 | Peak | 159 | 315 | P |
| 3 | 5240.00 | 7.00 | 109.52 | 116.52 | 200.00 | -83.48 | Average | 159 | 315 | P |
| 4 | 5240.00 | 7.00 | 119.35 | 126.35 | 200.00 | -73.65 | Peak | 159 | 315 | P |
| 5 | 10480.00 | 15.88 | 41.89 | 57.77 | 68.20 | -10.43 | Peak | 100 | 321 | P |
| 6 | 15720.00 | 19.16 | 28.64 | 47.80 | 54.00 | -6.20 | Average | 100 | 122 | P |
| 7 | 15720.00 | 19.16 | 42.64 | 61.80 | 74.00 | -12.20 | Peak | 100 | 122 | P |

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



Non BeamForming-Sector Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|----------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | VERTICAL |
| Test Mode | : | Mode 2, Band 1, CH36 | | : | |



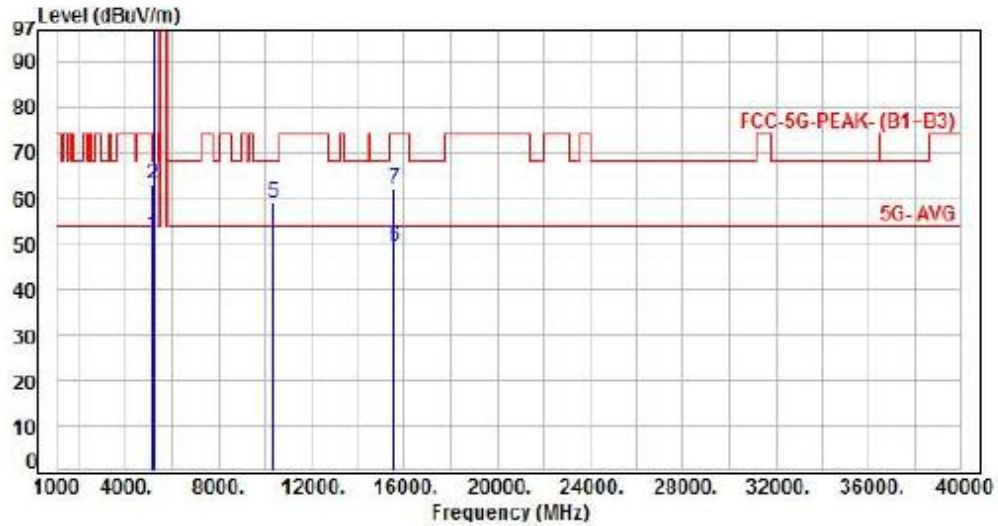
| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.91 | 52.61 | 54.00 | -1.39 | Average | 157 | 315 | P |
| 2 | 5150.00 | 6.70 | 58.37 | 65.07 | 74.00 | -8.93 | Peak | 157 | 315 | P |
| 3 | 5180.00 | 6.85 | 106.28 | 113.13 | 200.00 | -86.87 | Average | 157 | 315 | P |
| 4 | 5180.00 | 6.85 | 120.34 | 127.19 | 200.00 | -72.81 | Peak | 157 | 315 | P |
| 5 | 10360.00 | 15.84 | 41.32 | 57.16 | 68.20 | -11.04 | Peak | 100 | 100 | P |
| 6 | 15540.00 | 19.60 | 28.64 | 48.24 | 54.00 | -5.76 | Average | 100 | 214 | P |
| 7 | 15540.00 | 19.60 | 42.42 | 62.02 | 74.00 | -11.98 | Peak | 100 | 214 | P |

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



Non BeamForming-Sector Antenna

| | | | | | |
|-----------|---|----------------------|-----------|---|------------|
| Power | : | From PoE (120V/60Hz) | Pol/Phase | : | HORIZONTAL |
| Test Mode | : | Mode 2, Band 1, CH36 | | : | |



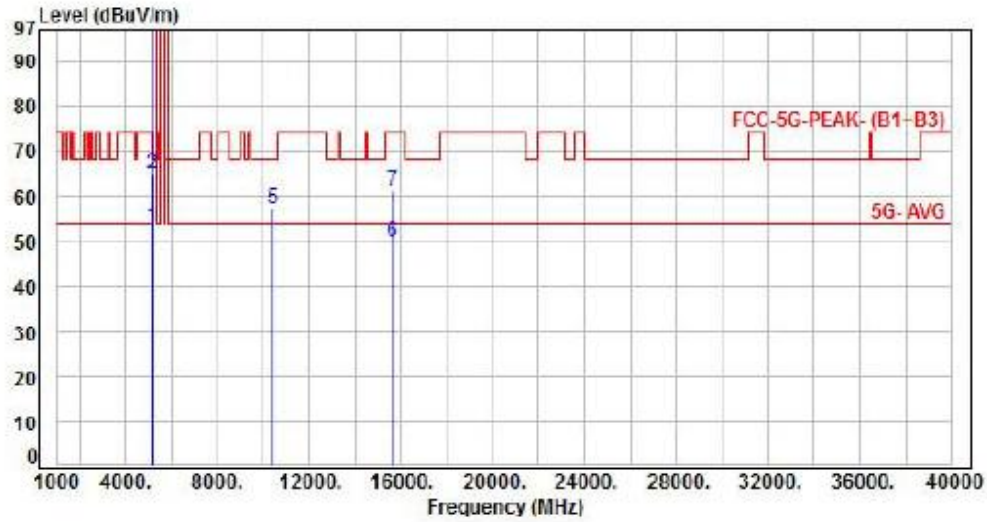
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.47 | 52.17 | 54.00 | -1.83 | Average | 157 | 307 | P |
| 2 | 5150.00 | 6.70 | 56.29 | 62.99 | 74.00 | -11.01 | Peak | 157 | 307 | P |
| 3 | 5180.00 | 6.85 | 106.88 | 113.73 | 200.00 | -86.27 | Average | 157 | 307 | P |
| 4 | 5180.00 | 6.85 | 119.62 | 126.47 | 200.00 | -73.53 | Peak | 157 | 307 | P |
| 5 | 10360.00 | 15.64 | 43.12 | 58.96 | 68.20 | -9.24 | Peak | 100 | 219 | P |
| 6 | 15540.00 | 19.60 | 29.66 | 49.26 | 54.00 | -4.74 | Average | 100 | 316 | P |
| 7 | 15540.00 | 19.60 | 42.31 | 61.91 | 74.00 | -12.09 | Peak | 100 | 316 | P |

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



Non BeamForming-Sector Antenna

| | | | |
|-----------|------------------------|-----------|------------|
| Power | : From PoE (120V/60Hz) | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 2, Band 1, CH40 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 5150.00 | 6.70 | 45.26 | 52.96 | 54.00 | -1.04 | Average | 156 | 309 | P |
| 2 | 5150.00 | 6.70 | 58.08 | 64.78 | 74.00 | -9.22 | Peak | 156 | 309 | P |
| 3 | 5200.00 | 6.95 | 109.39 | 116.34 | 200.00 | -83.66 | Average | 156 | 309 | P |
| 4 | 5200.00 | 6.95 | 120.99 | 127.94 | 200.00 | -72.06 | Peak | 156 | 309 | P |
| 5 | 10400.00 | 15.75 | 41.31 | 57.06 | 68.20 | -11.14 | Peak | 100 | 214 | P |
| 6 | 15600.00 | 19.55 | 30.16 | 49.71 | 54.00 | -4.29 | Average | 100 | 319 | P |
| 7 | 15600.00 | 19.55 | 41.64 | 61.19 | 74.00 | -12.81 | Peak | 100 | 319 | P |

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