

TEST REPORT

Application No.: SZCR2501000207WM
Applicant: TCL Communication Ltd.
Address of Applicant: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer: TCL Communication Ltd.
Address of Manufacturer: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Equipment Under Test (EUT):
EUT Description: Mobile Phone
Model No.: T451A
Trade Mark: Alcatel
FCC ID: 2ACCJB235
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2025-01-14
Date of Test: 2025-01-22 to 2025-02-05
Date of Issue: 2025-02-06

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

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

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2025-02-06 | | Original |
| | | | | |
| | | | | |

| | | | | |
|--------------------------|--|----------------------------|--|--|
| Authorized for issue by: | | | | |
| | | Kevin Lan | | |
| | | Kevin Lan/Project Engineer | | |
| | | Eric Fu | | |
| | | Eric Fu/Reviewer | | |



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2 Test Summary

| Emission Part | | | | |
|---|---------------------------|-----------------|-------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at Mains Terminals (150kHz-30MHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | 15.107(a);Class B | Pass |
| Radiated Emissions (30MHz-1GHz) | | ANSI C63.4:2014 | 15.109(a);Class B | Pass |
| Radiated Emissions (Above 1GHz) | | ANSI C63.4:2014 | 15.109(g);Class B | Pass |

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4 General Information

4.1 Details of E.U.T.

| | |
|-------------------|--------------|
| EUT Description: | Mobile Phone |
| Model No.: | T451A |
| Trade Mark: | Alcatel |
| Hardware Version: | V00 |
| Software Version: | T451DA11 |

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Accessory:

| Adapter No. | Model Name | Brand Name |
|-------------|----------------|------------|
| 1 | UT-681A-5200MY | TCL |
| 2 | UC13US | TCL |
| 3 | UC13AR | TCL |

Remark: The design of all chargers is the same, only the plug is different, Testing the Adapter No.1.

| Battery No. | Model Name | Remark |
|-------------|------------|--------|
| 1 | TLp049LB | EUT1 |
| 2 | TLp049L9 | EUT2 |

| USB Cable No. | Model Name | Brand Name |
|---------------|---------------|------------|
| 1 | JWUB1686-M01R | TCL |

| Earphone No. | Model Name | Brand Name |
|--------------|------------|------------|
| 1 | JWEP1295 | TCL |

4.2 Test modes

| | | |
|---|----|--|
| Pretest these modes to find the worst case and show the worse data in the test items: | 04 | Transfer data between the EUT1 and the PC+USB cable |
| | 05 | Transfer data between the EUT2 and the PC+USB cable |
| | 06 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS |
| | 07 | +Camera(Rear)+WWAN idle+Earphone |
| | 08 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS |
| | 09 | +Camera(Front)+WWAN idle+Earphone |
| | 08 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Play MP4+WWAN idle+Earphone |
| | 09 | EUT1 OTG mode(read data from USB disk) |

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4.3 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|-------------------|
| Laptop | Lenovo | L480 | REF. No.SEA18C00E |
| Mouse | Lenovo | M-U0025-O | REF. No.:SEA24A01 |
| Router | NETGEAR | DGN2200 | REF. No.SEA22A00 |

4.4 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| Conducted Emissions at Mains Terminals (150kHz-30MHz) | $\pm 3.1\text{dB}$ |
| Radiated Emissions (30MHz-1GHz) | $\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m |
| Radiated Emissions (Above 1GHz) | $\pm 4.6\text{dB}$ |

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

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



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4.5 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

| Conducted Emissions at Mains Terminals (150kHz-30MHz) | | | | | |
|---|------------------|------------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2022-05-14 | 2025-05-13 |
| EMI Test Receiver | Rohde&Schwarz | ESR | SZ-WRG-M-047 | 2025-01-08 | 2026-01-07 |
| Measurement Software | AUDIX | e3 V8.2014-6-27a | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2024-07-06 | 2025-07-05 |
| LISN | Rohde&Schwarz | ENV216 | SEM007-01 | 2024-08-15 | 2025-08-14 |
| LISN | ETS-LINDGREN | 3816/2 | SEM007-02 | 2024-03-14 | 2025-03-13 |

| Radiated Emissions (30MHz-1GHz) | | | | | |
|---------------------------------|----------------------|-----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2023-06-19 | 2026-06-18 |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2024-08-14 | 2025-08-13 |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2023-09-16 | 2025-09-15 |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2024-03-14 | 2025-03-13 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2024-07-06 | 2025-07-05 |

| Radiated Emissions (Above 1GHz) | | | | | |
|---------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| 3m Fully-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2024-05-11 | 2027-05-10 |
| Signal Analyzer | Rohde & Schwarz | FSV40 | SEM008-04 | 2024-03-15 | 2025-03-14 |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2023-07-23 | 2025-07-22 |
| Microwave system amplifier | Agilent | 83017A | SEM005-25 | 2024-09-14 | 2025-09-13 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2024-07-06 | 2025-07-05 |



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| General used equipment | | | | | |
|---------------------------------|---|-----------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-32 | 2024-07-24 | 2025-07-23 |
| Humidity/ Temperature Indicator | deli | 8838 | SEM002-33 | 2024-07-24 | 2025-07-23 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2024-03-18 | 2025-03-17 |



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average

0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average

5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

Humidity: 44.5 % RH

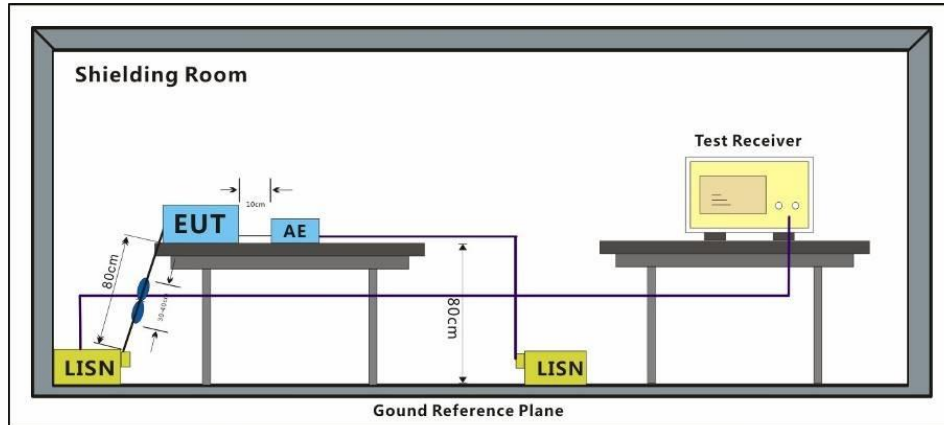
Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | Transfer data between the EUT1 and the PC+USB cable |
| Pre-scan | 05 | Transfer data between the EUT2 and the PC+USB cable |
| Final test | 06 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone |
| Pre-scan | 07 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone |
| Pre-scan | 08 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Play MP4+WWAN idle+Earphone |
| Pre-scan | 09 | EUT1 OTG mode(read data from USB disk) |



6.1.3 Test Setup Diagram



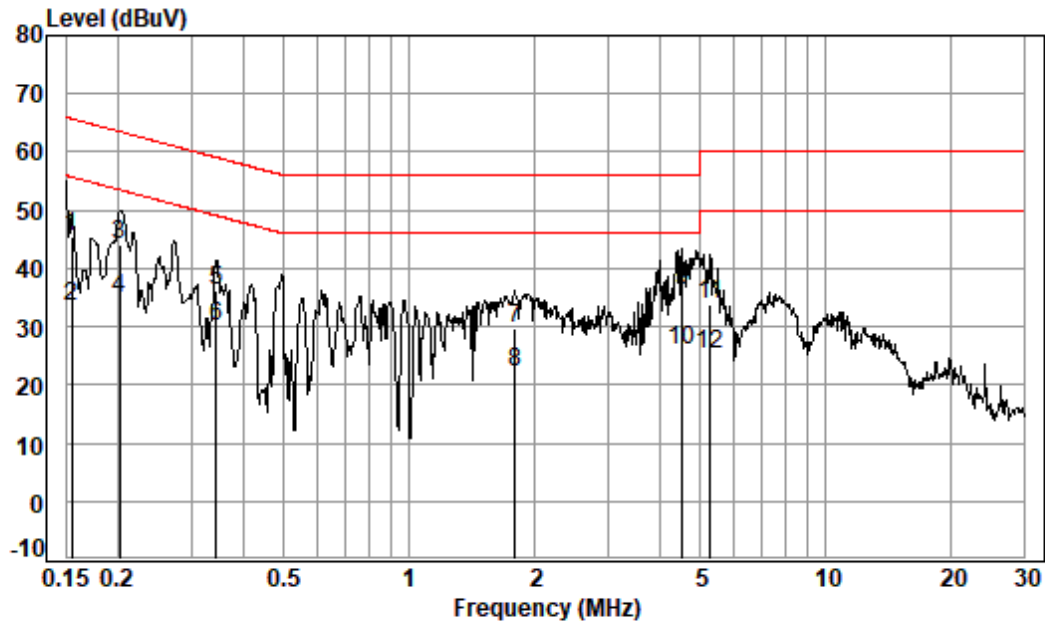
6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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



Test Mode: 04; Line: Live line



Site : Shielding Room

Condition: Line

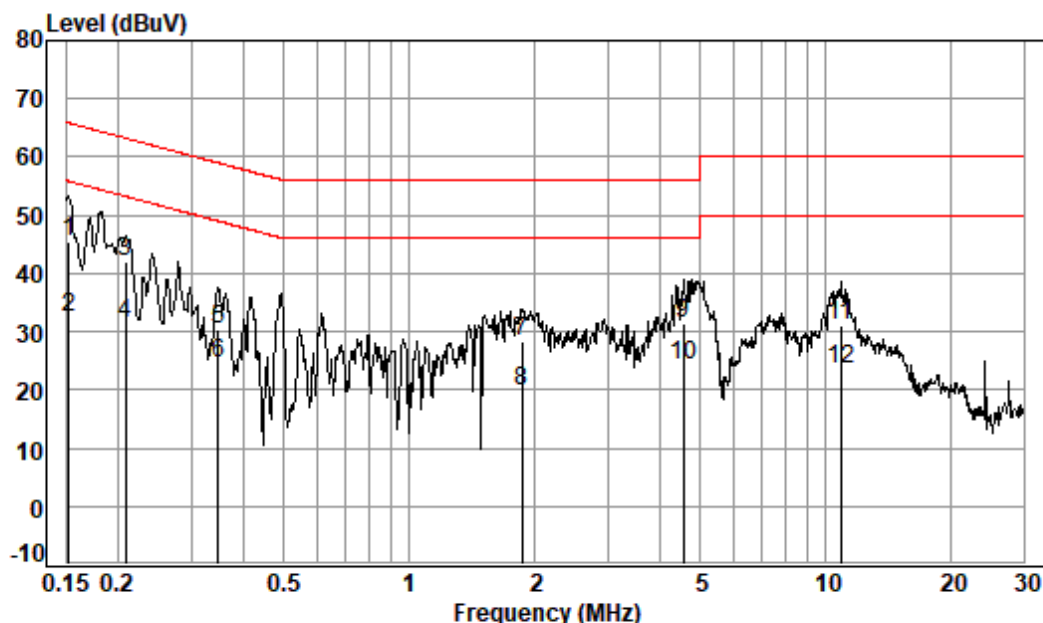
Job No. : 00207WM

Test mode: 04

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|--------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1548 | 0.06 | 10.19 | 35.30 | 45.55 | 65.74 | -20.19 | QP |
| 2 | 0.1548 | 0.06 | 10.19 | 23.38 | 33.63 | 55.74 | -22.11 | Average |
| 3 * | 0.2018 | 0.06 | 10.11 | 33.82 | 43.99 | 63.54 | -19.55 | QP |
| 4 * | 0.2018 | 0.06 | 10.11 | 24.83 | 35.00 | 53.54 | -18.54 | Average |
| 5 | 0.3446 | 0.07 | 9.77 | 26.20 | 36.04 | 59.09 | -23.05 | QP |
| 6 | 0.3446 | 0.07 | 9.77 | 20.30 | 30.14 | 49.09 | -18.95 | Average |
| 7 | 1.7905 | 0.10 | 9.58 | 20.10 | 29.78 | 56.00 | -26.22 | QP |
| 8 | 1.7905 | 0.10 | 9.58 | 12.46 | 22.14 | 46.00 | -23.86 | Average |
| 9 | 4.5254 | 0.12 | 9.66 | 26.52 | 36.30 | 56.00 | -19.70 | QP |
| 10 | 4.5254 | 0.12 | 9.66 | 15.99 | 25.77 | 46.00 | -20.23 | Average |
| 11 | 5.2770 | 0.13 | 9.66 | 23.98 | 33.77 | 60.00 | -26.23 | QP |
| 12 | 5.2770 | 0.13 | 9.66 | 15.37 | 25.16 | 50.00 | -24.84 | Average |



Test Mode: 04; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00207WM

Test mode: 04

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|---------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 * | 0.1524 | 0.06 | 10.15 | 35.24 | 45.45 | 65.87 | -20.42 | QP |
| 2 | 0.1524 | 0.06 | 10.15 | 22.10 | 32.31 | 55.87 | -23.56 | Average |
| 3 | 0.2094 | 0.06 | 10.04 | 31.84 | 41.94 | 63.23 | -21.29 | QP |
| 4 * | 0.2094 | 0.06 | 10.04 | 21.25 | 31.35 | 53.23 | -21.88 | Average |
| 5 | 0.3483 | 0.07 | 9.75 | 20.49 | 30.31 | 59.00 | -28.69 | QP |
| 6 | 0.3483 | 0.07 | 9.75 | 14.65 | 24.47 | 49.00 | -24.53 | Average |
| 7 | 1.8680 | 0.10 | 9.55 | 18.66 | 28.31 | 56.00 | -27.69 | QP |
| 8 | 1.8680 | 0.10 | 9.55 | 10.16 | 19.81 | 46.00 | -26.19 | Average |
| 9 | 4.5494 | 0.12 | 9.56 | 21.71 | 31.39 | 56.00 | -24.61 | QP |
| 10 | 4.5494 | 0.12 | 9.56 | 14.43 | 24.11 | 46.00 | -21.89 | Average |
| 11 | 10.8474 | 0.21 | 9.63 | 21.31 | 31.15 | 60.00 | -28.85 | QP |
| 12 | 10.8474 | 0.21 | 9.63 | 13.67 | 23.51 | 50.00 | -26.49 | Average |



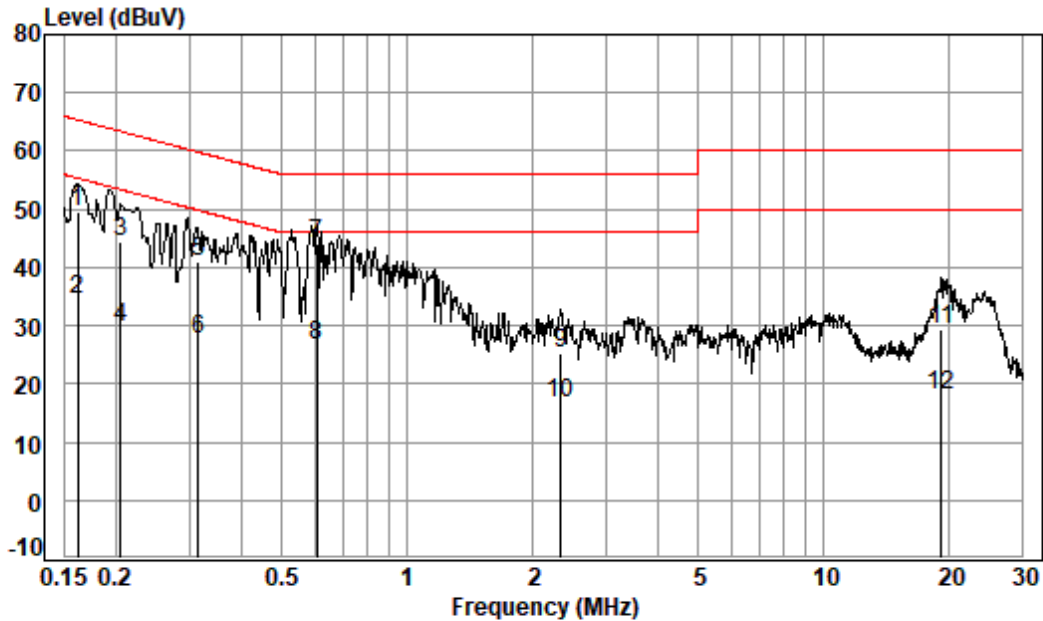
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Report No.: SZCR250100020705

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Test Mode: 06; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00207WM
Test mode: 06

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|---------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1624 | 0.06 | 10.17 | 39.29 | 49.52 | 65.34 | -15.82 | QP |
| 2 | 0.1624 | 0.06 | 10.17 | 24.10 | 34.33 | 55.34 | -21.01 | Average |
| 3 | 0.2050 | 0.06 | 10.10 | 34.36 | 44.52 | 63.40 | -18.88 | QP |
| 4 | 0.2050 | 0.06 | 10.10 | 19.40 | 29.56 | 53.40 | -23.84 | Average |
| 5 | 0.3149 | 0.07 | 9.82 | 31.23 | 41.12 | 59.84 | -18.72 | QP |
| 6 | 0.3149 | 0.07 | 9.82 | 17.63 | 27.52 | 49.84 | -22.32 | Average |
| 7 * | 0.6075 | 0.08 | 9.60 | 34.48 | 44.16 | 56.00 | -11.84 | QP |
| 8 * | 0.6075 | 0.08 | 9.60 | 17.01 | 26.69 | 46.00 | -19.31 | Average |
| 9 | 2.3336 | 0.11 | 9.61 | 15.69 | 25.41 | 56.00 | -30.59 | QP |
| 10 | 2.3336 | 0.11 | 9.61 | 7.10 | 16.82 | 46.00 | -29.18 | Average |
| 11 | 19.1220 | 0.29 | 10.13 | 18.88 | 29.30 | 60.00 | -30.70 | QP |
| 12 | 19.1220 | 0.29 | 10.13 | 7.52 | 17.94 | 50.00 | -32.06 | Average |



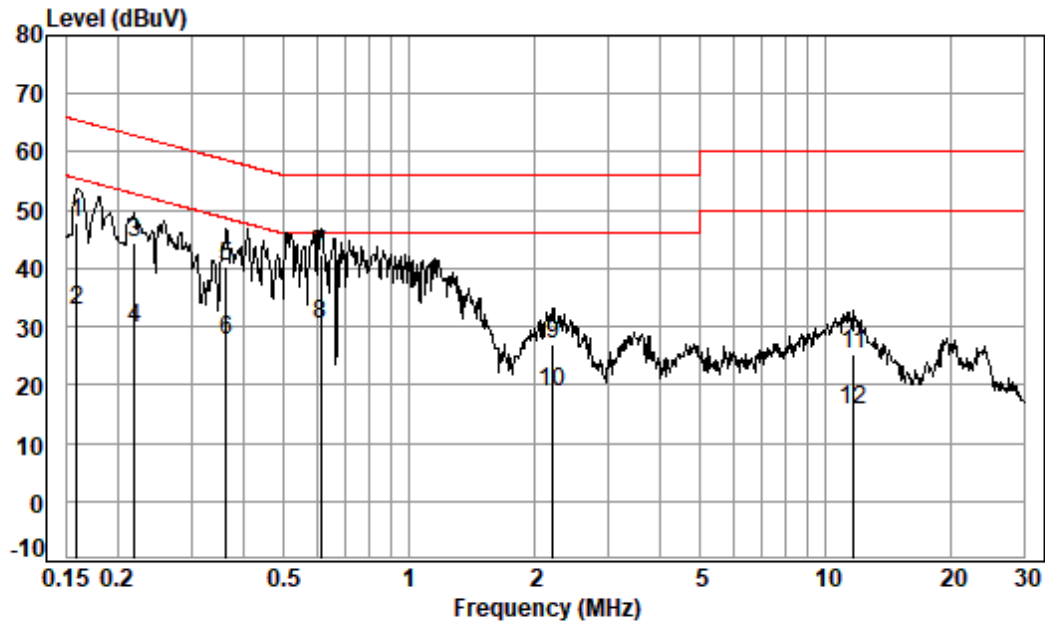
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Test Mode: 06; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00207WM
Test mode: 06

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|---------|------------|-------------|------------|-------|------------|------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.1598 | 0.06 | 10.13 | 37.70 | 47.89 | 65.47 | -17.58 | QP |
| 2 | 0.1598 | 0.06 | 10.13 | 22.46 | 32.65 | 55.47 | -22.82 | Average |
| 3 | 0.2197 | 0.06 | 10.01 | 34.24 | 44.31 | 62.83 | -18.52 | QP |
| 4 | 0.2197 | 0.06 | 10.01 | 19.46 | 29.53 | 52.83 | -23.30 | Average |
| 5 | 0.3634 | 0.07 | 9.75 | 30.48 | 40.30 | 58.65 | -18.35 | QP |
| 6 | 0.3634 | 0.07 | 9.75 | 17.71 | 27.53 | 48.65 | -21.12 | Average |
| 7 * | 0.6140 | 0.08 | 9.67 | 32.58 | 42.33 | 56.00 | -13.67 | QP |
| 8 * | 0.6140 | 0.08 | 9.67 | 20.79 | 30.54 | 46.00 | -15.46 | Average |
| 9 | 2.2132 | 0.10 | 9.55 | 17.32 | 26.97 | 56.00 | -29.03 | QP |
| 10 | 2.2132 | 0.10 | 9.55 | 9.08 | 18.73 | 46.00 | -27.27 | Average |
| 11 | 11.6208 | 0.22 | 9.68 | 15.34 | 25.24 | 60.00 | -34.76 | QP |
| 12 | 11.6208 | 0.22 | 9.68 | 5.69 | 15.59 | 50.00 | -34.41 | Average |



6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

| FREQUENCY (MHz) | dBμV/m (At 10m) | dBμV/m (At 3m) |
|--|-----------------|----------------|
| | Class B | Class B |
| 30MHz -88MHz | 29.5 | 40.0 |
| 88MHz-216MHz | 33.1 | 43.5 |
| 216MHz-960MHz | 35.6 | 46.0 |
| 960MHz-1000MHz | 43.5 | 54.0 |
| Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz | | |

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

Humidity: 46.6 % RH

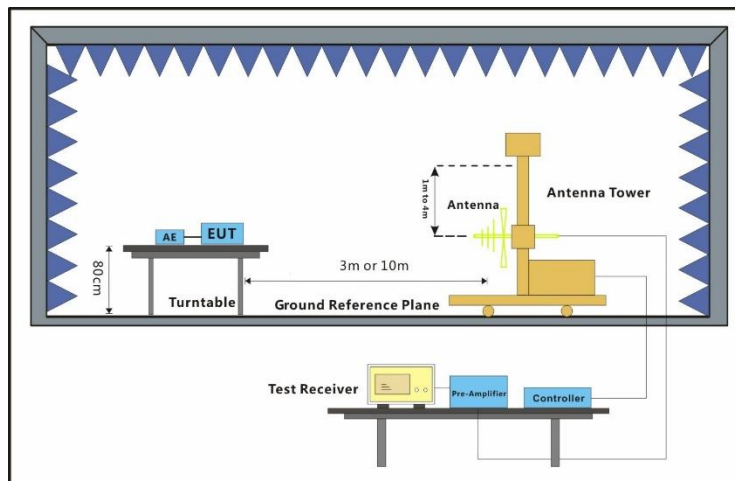
Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | Transfer data between the EUT1 and the PC+USB cable |
| Pre-scan | 05 | Transfer data between the EUT2 and the PC+USB cable |
| Pre-scan | 06 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone |
| Final test | 07 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone |
| Pre-scan | 08 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Play MP4+WWAN idle+Earphone |
| Pre-scan | 09 | EUT1 OTG mode(read data from USB disk) |



6.2.3 Test Setup Diagram



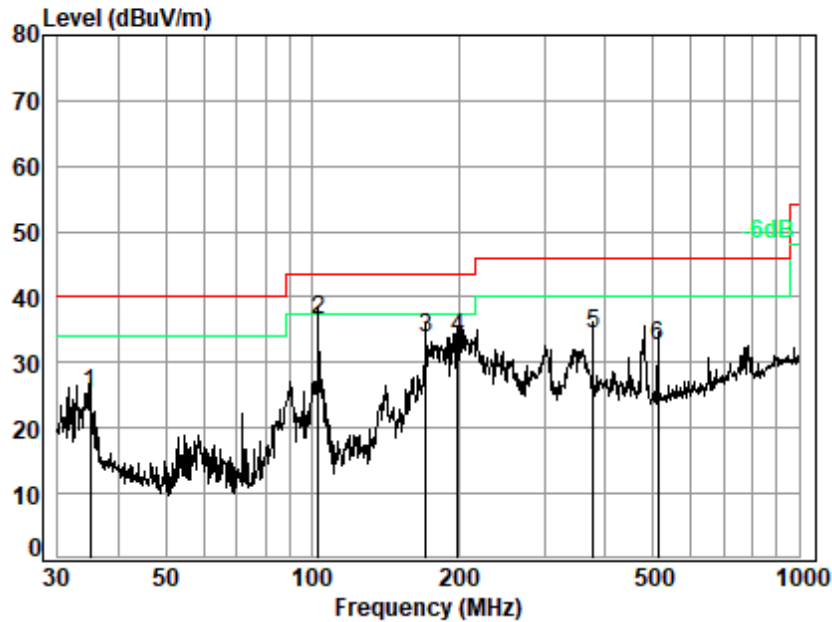
6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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



Test Mode: 04; Polarity: Horizontal

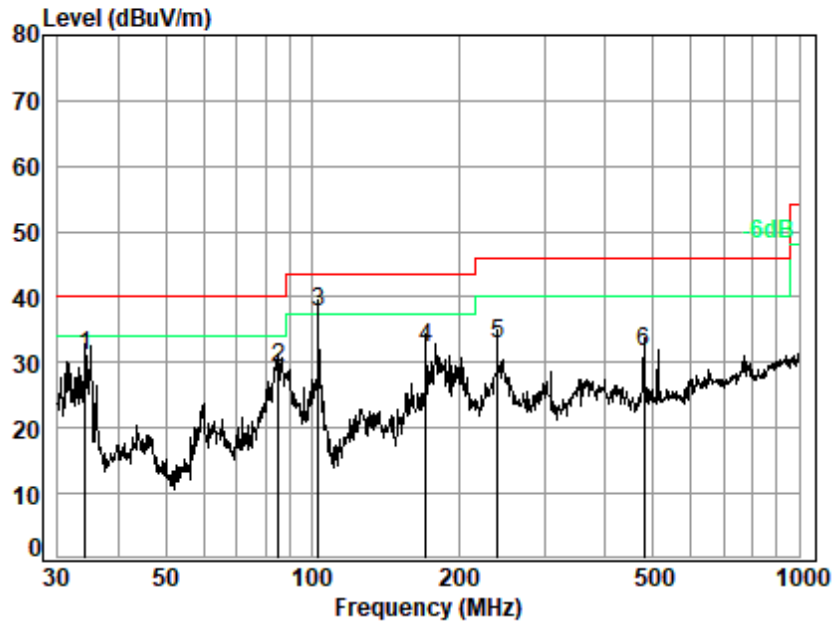


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00207WM
Test Mode: 04

| | Ant | Cable | Preamp | Read | | Limit | Over | |
|-----|---------|--------|--------|--------|-------|--------|--------|--------------|
| | Freq | Factor | Loss | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 35.005 | 18.88 | 0.73 | 27.78 | 33.46 | 25.29 | 40.00 | -14.71 QP |
| 2 q | 103.080 | 12.28 | 1.24 | 27.58 | 50.50 | 36.44 | 43.50 | -7.06 QP |
| 3 | 171.393 | 13.42 | 1.64 | 27.29 | 46.13 | 33.90 | 43.50 | -9.60 QP |
| 4 | 198.588 | 14.07 | 1.75 | 27.18 | 45.04 | 33.68 | 43.50 | -9.82 QP |
| 5 | 377.259 | 20.80 | 2.50 | 27.06 | 38.00 | 34.24 | 46.00 | -11.76 QP |
| 6 | 513.633 | 23.26 | 2.97 | 27.62 | 34.08 | 32.69 | 46.00 | -13.31 QP |



Test Mode: 04; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00207WM
Test Mode: 04

| | Ant Freq | Cable Factor | Preamp Loss | Read Factor | Level | Limit | Over | |
|-----|-------------|-----------------|----------------|----------------|-------|--------|--------|-----------|
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 34.156 | 19.34 | 0.72 | 27.78 | 38.68 | 30.96 | 40.00 | -9.04 QP |
| 2 | 85.298 | 11.07 | 1.13 | 27.63 | 44.69 | 29.26 | 40.00 | -10.74 QP |
| 3 q | 102.719 | 12.29 | 1.24 | 27.58 | 51.67 | 37.62 | 43.50 | -5.88 QP |
| 4 | 171.393 | 13.42 | 1.64 | 27.29 | 44.62 | 32.39 | 43.50 | -11.11 QP |
| 5 | 239.987 | 17.07 | 1.96 | 27.00 | 40.83 | 32.86 | 46.00 | -13.14 QP |
| 6 | 480.528 | 22.75 | 2.86 | 27.48 | 33.54 | 31.67 | 46.00 | -14.33 QP |



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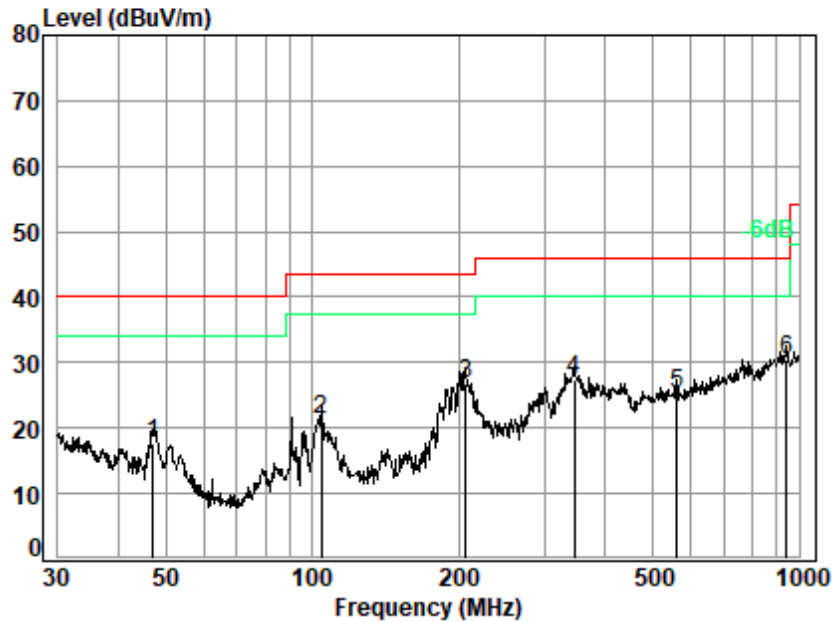
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Test Mode: 07; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00207WM
Test Mode: 07

| | Ant | Cable | Preamp | Read | | Limit | Over | |
|-----|---------|--------|--------|--------|-------|--------|--------|--------------|
| | Freq | Factor | Loss | Factor | Level | Level | Line | Limit Remark |
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 46.995 | 13.64 | 0.84 | 27.74 | 30.99 | 17.73 | 40.00 | -22.27 QP |
| 2 | 104.170 | 12.22 | 1.25 | 27.57 | 35.37 | 21.27 | 43.50 | -22.23 QP |
| 3 | 206.398 | 14.61 | 1.79 | 27.14 | 37.52 | 26.78 | 43.50 | -16.72 QP |
| 4 | 345.595 | 19.58 | 2.39 | 26.94 | 32.33 | 27.36 | 46.00 | -18.64 QP |
| 5 | 560.693 | 23.44 | 3.12 | 27.81 | 26.63 | 25.38 | 46.00 | -20.62 QP |
| 6 q | 942.131 | 28.19 | 4.23 | 26.46 | 24.49 | 30.45 | 46.00 | -15.55 QP |



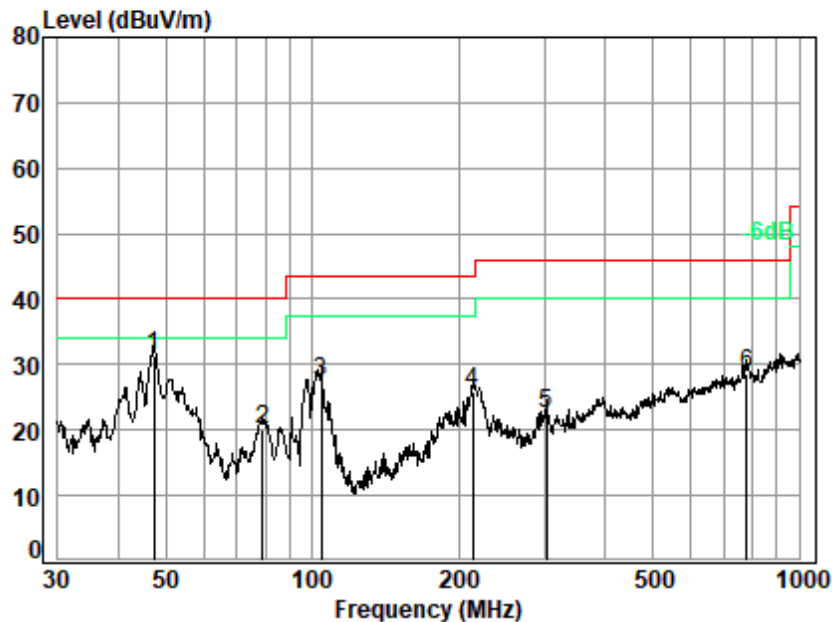
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Test Mode: 07; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00207WM
Test Mode: 07

| | | Ant | Cable | Preamp | Read | | Limit | Over | |
|-----|---------|--------|-------|--------|-------|--------|--------|--------|--------|
| | Freq | Factor | Loss | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB/m | dB | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 q | 47.326 | 13.53 | 0.84 | 27.74 | 44.65 | 31.28 | 40.00 | -8.72 | QP |
| 2 | 78.965 | 10.41 | 1.08 | 27.65 | 36.14 | 19.98 | 40.00 | -20.02 | QP |
| 3 | 104.170 | 12.22 | 1.25 | 27.57 | 41.54 | 27.44 | 43.50 | -16.06 | QP |
| 4 | 213.763 | 14.80 | 1.83 | 27.11 | 36.27 | 25.79 | 43.50 | -17.71 | QP |
| 5 | 302.481 | 18.22 | 2.21 | 26.76 | 28.82 | 22.49 | 46.00 | -23.51 | QP |
| 6 | 779.607 | 27.03 | 3.80 | 27.53 | 25.32 | 28.62 | 46.00 | -17.38 | QP |



6.3 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average at 3m distance
83.54(dBμV/m) peak, 63.54(dBμV/m) average at 1m distance

Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

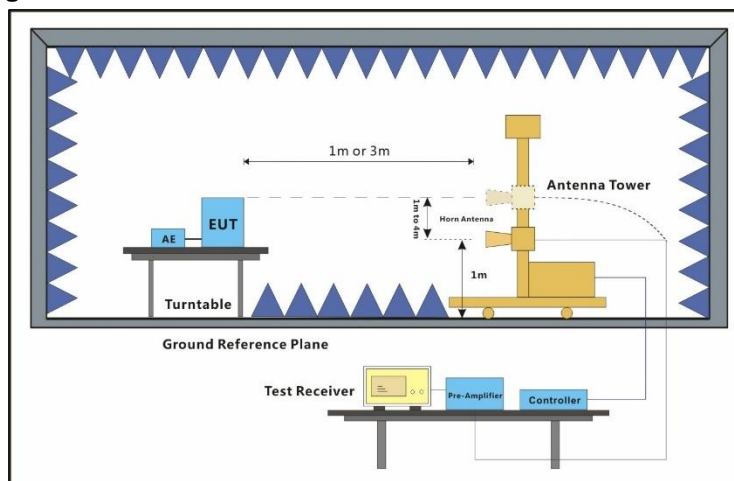
Humidity: 40.5 % RH

Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|---|
| Final test | 04 | Transfer data between the EUT1 and the PC+USB cable |
| Pre-scan | 05 | Transfer data between the EUT2 and the PC+USB cable |
| Final test | 06 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Rear)+WWAN idle+Earphone |
| Final test | 07 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Camera(Front)+WWAN idle+Earphone |
| Final test | 08 | EUT1+adapter+usb Cable+BT(Idle)+WIFI(Idle)+FM+GNSS+Play MP4+WWAN idle+Earphone |
| Pre-scan | 09 | EUT1 OTG mode(read data from USB disk) |

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

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



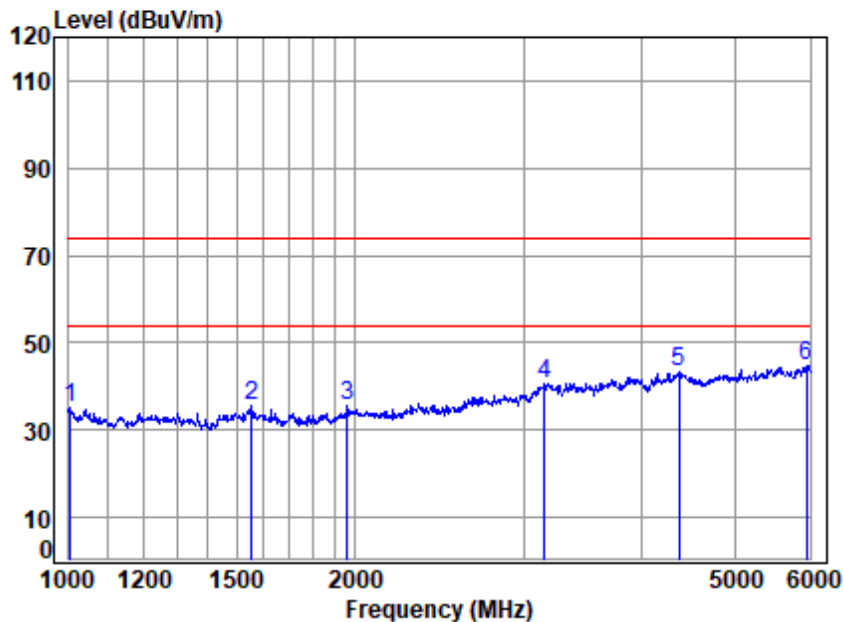
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Test Mode: 04; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00207WM
Mode : 04

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1003.590 | 5.94 | 26.19 | 54.60 | 57.72 | 35.25 | 74.00 | -38.75 | Peak |
| 2 | 1556.694 | 4.91 | 26.97 | 54.79 | 58.30 | 35.39 | 74.00 | -38.61 | Peak |
| 3 | 1961.484 | 5.05 | 28.11 | 54.89 | 57.12 | 35.39 | 74.00 | -38.61 | Peak |
| 4 | 3159.171 | 6.06 | 32.57 | 54.87 | 56.70 | 40.46 | 74.00 | -33.54 | Peak |
| 5 | 4369.367 | 7.05 | 34.55 | 54.26 | 56.10 | 43.44 | 74.00 | -30.56 | Peak |
| 6 p | 5946.487 | 8.72 | 34.69 | 53.15 | 54.67 | 44.93 | 74.00 | -29.07 | Peak |



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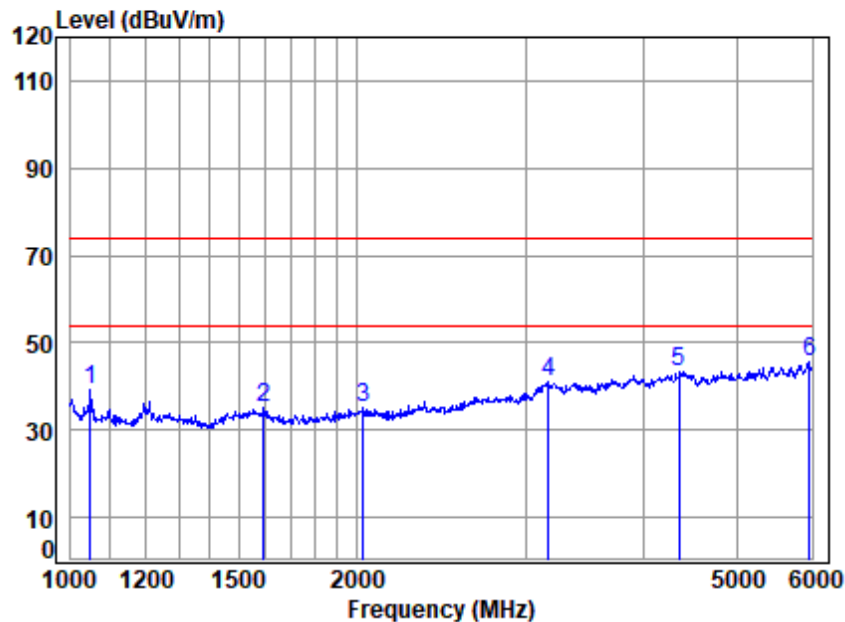
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Test Mode: 04; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00207WM
Mode : 04

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1047.688 | 5.83 | 24.77 | 54.62 | 63.15 | 39.13 | 74.00 | -34.87 | Peak |
| 2 | 1593.380 | 4.93 | 26.83 | 54.80 | 58.19 | 35.15 | 74.00 | -38.85 | Peak |
| 3 | 2029.410 | 5.09 | 28.92 | 54.90 | 55.83 | 34.94 | 74.00 | -39.06 | Peak |
| 4 | 3176.198 | 6.07 | 32.71 | 54.86 | 57.28 | 41.20 | 74.00 | -32.80 | Peak |
| 5 | 4353.737 | 7.04 | 34.43 | 54.26 | 56.32 | 43.53 | 74.00 | -30.47 | Peak |
| 6 p | 5957.151 | 8.73 | 34.73 | 53.14 | 55.29 | 45.61 | 74.00 | -28.39 | Peak |



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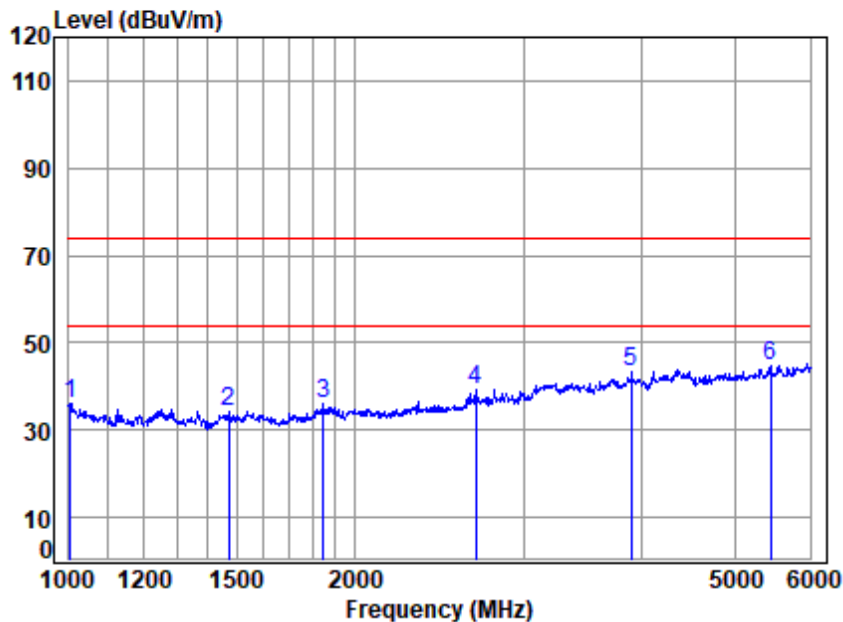
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Test Mode: 06; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00207WM
Mode : 06

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1003.590 | 5.94 | 26.19 | 54.60 | 58.53 | 36.06 | 74.00 | -37.94 | Peak |
| 2 | 1472.586 | 4.94 | 26.03 | 54.77 | 57.83 | 34.03 | 74.00 | -39.97 | Peak |
| 3 | 1848.868 | 5.01 | 27.00 | 54.87 | 58.69 | 35.83 | 74.00 | -38.17 | Peak |
| 4 | 2674.269 | 5.63 | 29.96 | 54.97 | 58.39 | 39.01 | 74.00 | -34.99 | Peak |
| 5 | 3895.981 | 6.67 | 33.74 | 54.36 | 57.21 | 43.26 | 74.00 | -30.74 | Peak |
| 6 p | 5456.438 | 8.24 | 34.67 | 53.67 | 55.56 | 44.80 | 74.00 | -29.20 | Peak |



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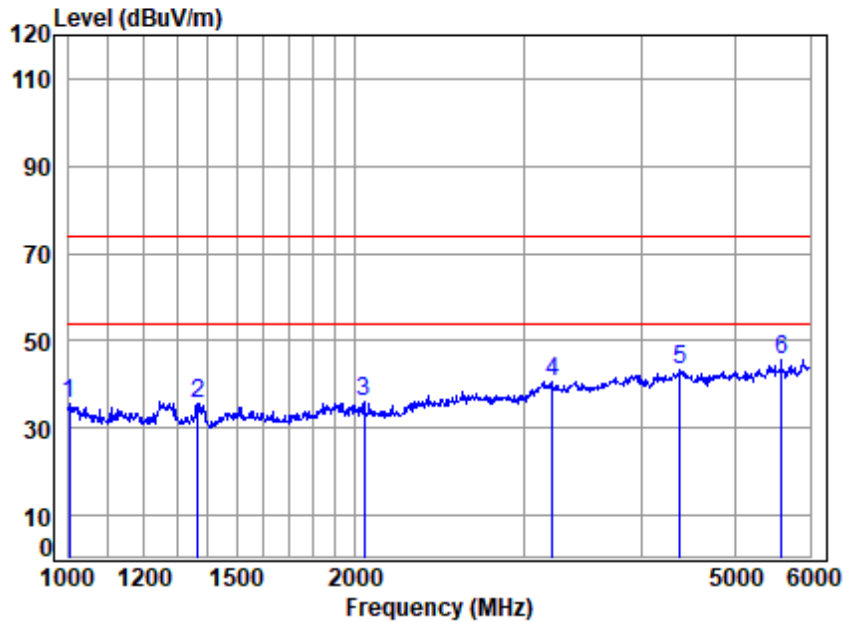
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100020705

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Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00207WM
Mode : 06

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1001.793 | 5.95 | 26.24 | 54.60 | 57.86 | 35.45 | 74.00 | -38.55 | Peak |
| 2 | 1365.835 | 5.13 | 24.53 | 54.73 | 60.87 | 35.80 | 74.00 | -38.20 | Peak |
| 3 | 2040.348 | 5.09 | 28.96 | 54.90 | 57.07 | 36.22 | 74.00 | -37.78 | Peak |
| 4 | 3216.286 | 6.10 | 32.64 | 54.83 | 56.75 | 40.66 | 74.00 | -33.34 | Peak |
| 5 | 4385.052 | 7.06 | 34.68 | 54.26 | 55.71 | 43.19 | 74.00 | -30.81 | Peak |
| 6 p | 5595.042 | 8.39 | 34.70 | 53.52 | 55.93 | 45.50 | 74.00 | -28.50 | Peak |



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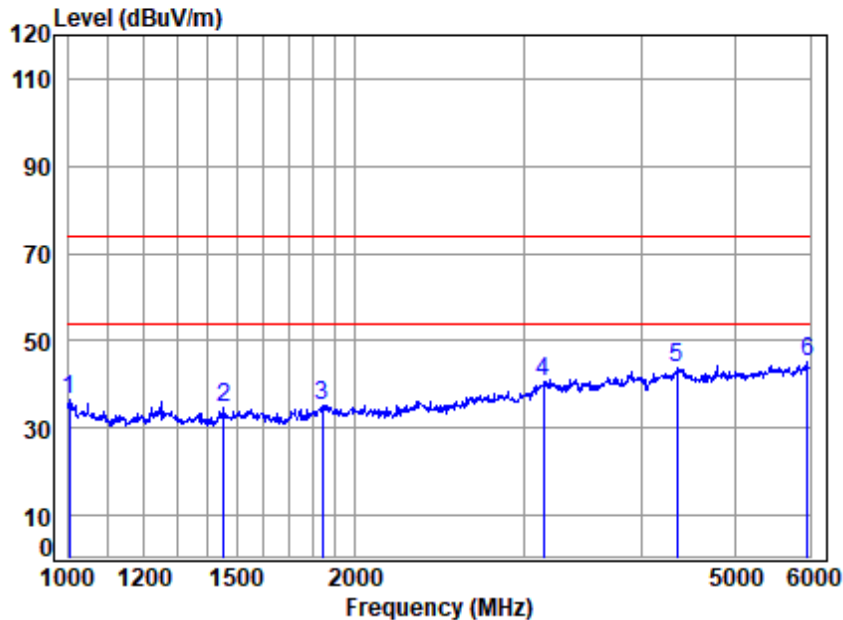
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Test Mode: 07; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00207WM
Mode : 07

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1001.793 | 5.95 | 26.24 | 54.60 | 59.02 | 36.61 | 74.00 | -37.39 | Peak |
| 2 | 1454.232 | 4.97 | 25.52 | 54.76 | 58.98 | 34.71 | 74.00 | -39.29 | Peak |
| 3 | 1845.558 | 5.01 | 27.00 | 54.87 | 58.19 | 35.33 | 74.00 | -38.67 | Peak |
| 4 | 3153.515 | 6.06 | 32.53 | 54.88 | 57.06 | 40.77 | 74.00 | -33.23 | Peak |
| 5 | 4353.737 | 7.04 | 34.43 | 54.26 | 56.50 | 43.71 | 74.00 | -30.29 | Peak |
| 6 p | 5957.151 | 8.73 | 34.73 | 53.14 | 54.69 | 45.01 | 74.00 | -28.99 | Peak |



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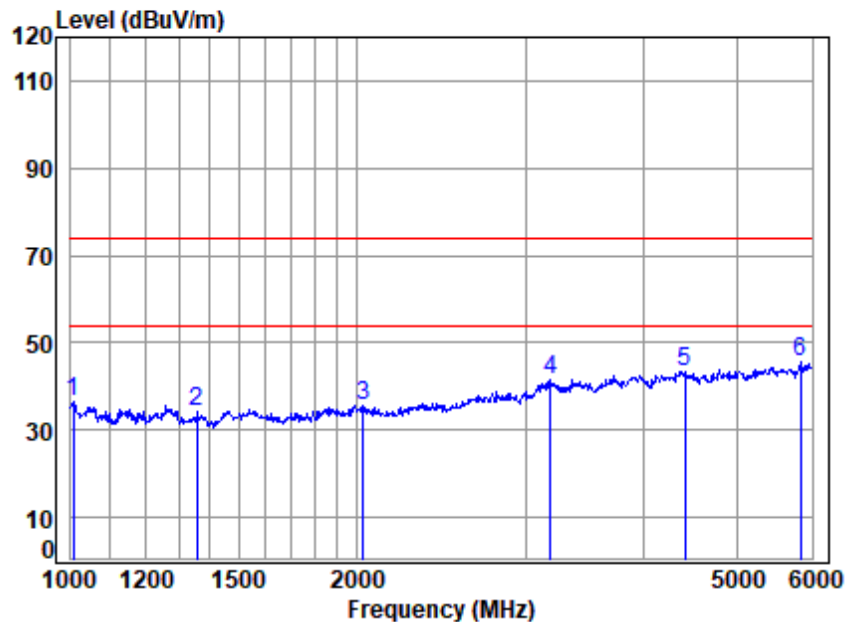
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100020705

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Test Mode: 07; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00207WM
Mode : 07

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|--------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1007.193 | 5.93 | 26.07 | 54.60 | 59.25 | 36.65 | 74.00 | -37.35 | Peak |
| 2 | 1356.081 | 5.15 | 24.51 | 54.73 | 59.30 | 34.23 | 74.00 | -39.77 | Peak |
| 3 | 2025.777 | 5.08 | 28.90 | 54.90 | 56.39 | 35.47 | 74.00 | -38.53 | Peak |
| 4 | 3187.600 | 6.08 | 32.80 | 54.85 | 57.46 | 41.49 | 74.00 | -32.51 | Peak |
| 5 | 4408.687 | 7.08 | 34.70 | 54.26 | 56.03 | 43.55 | 74.00 | -30.45 | Peak |
| 6 p | 5830.433 | 8.62 | 34.36 | 53.27 | 56.14 | 45.85 | 74.00 | -28.15 | Peak |



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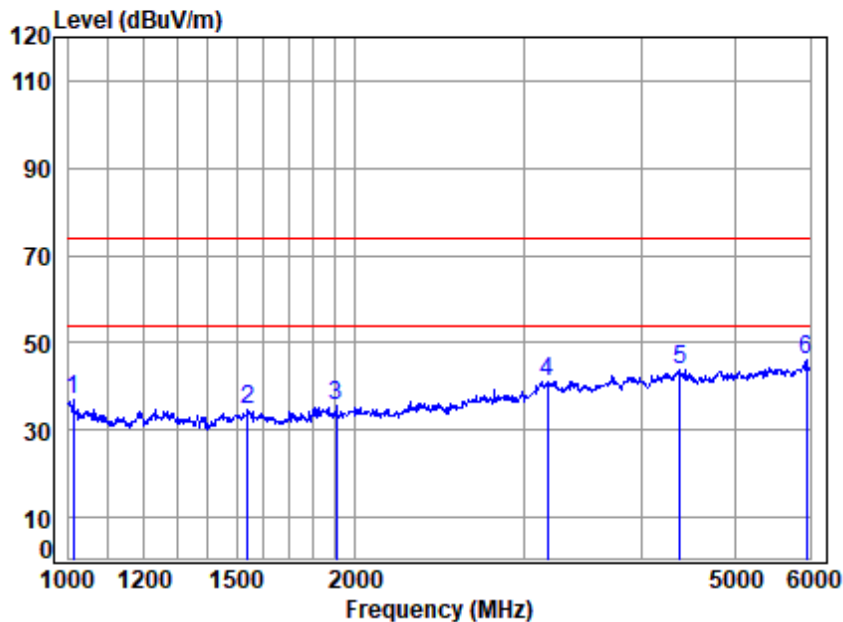
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100020705

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Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00207WM
Mode : 08

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit | Over | Remark |
|-----|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1010.809 | 5.92 | 25.95 | 54.60 | 59.48 | 36.75 | 74.00 | -37.25 | Peak |
| 2 | 1542.811 | 4.91 | 26.97 | 54.79 | 57.44 | 34.53 | 74.00 | -39.47 | Peak |
| 3 | 1909.469 | 5.03 | 27.49 | 54.88 | 58.14 | 35.78 | 74.00 | -38.22 | Peak |
| 4 | 3181.894 | 6.08 | 32.76 | 54.86 | 56.89 | 40.87 | 74.00 | -33.13 | Peak |
| 5 | 4385.052 | 7.06 | 34.68 | 54.26 | 56.44 | 43.92 | 74.00 | -30.08 | Peak |
| 6 p | 5946.487 | 8.72 | 34.69 | 53.15 | 55.67 | 45.93 | 74.00 | -28.07 | Peak |



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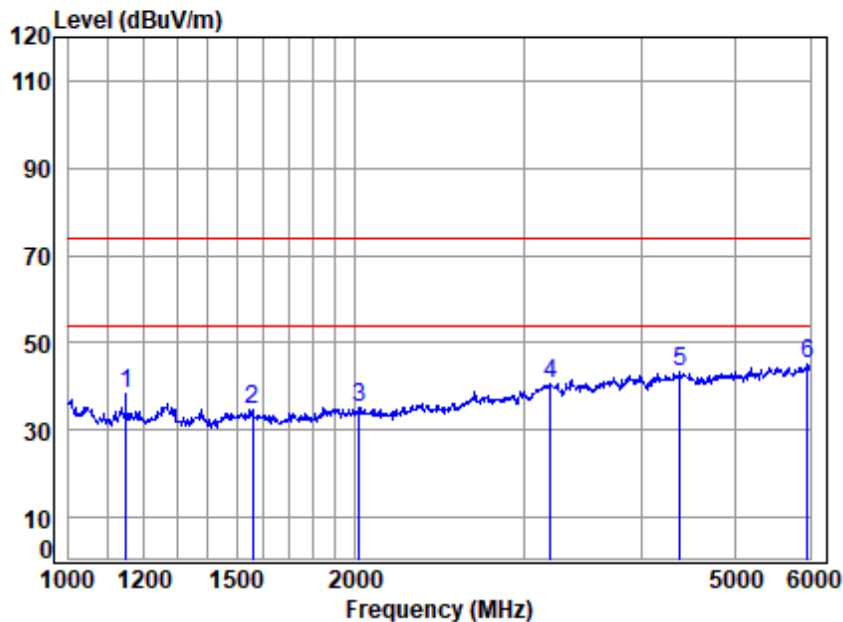
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Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00207WM
Mode : 08

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1147.936 | 5.59 | 23.89 | 54.66 | 63.52 | 38.34 | 74.00 | -35.66 | Peak |
| 2 | 1559.486 | 4.91 | 26.96 | 54.79 | 57.62 | 34.70 | 74.00 | -39.30 | Peak |
| 3 | 2018.530 | 5.08 | 28.87 | 54.90 | 55.96 | 35.01 | 74.00 | -38.99 | Peak |
| 4 | 3204.781 | 6.09 | 32.82 | 54.84 | 56.48 | 40.55 | 74.00 | -33.45 | Peak |
| 5 | 4377.203 | 7.05 | 34.62 | 54.26 | 55.75 | 43.16 | 74.00 | -30.84 | Peak |
| 6 p | 5957.151 | 8.73 | 34.73 | 53.14 | 54.82 | 45.14 | 74.00 | -28.86 | Peak |



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7 Test Setup Photo

Please refer to SZCR2501000207 Appendix_Setup Photo

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2501000207.

- End of the Report -

