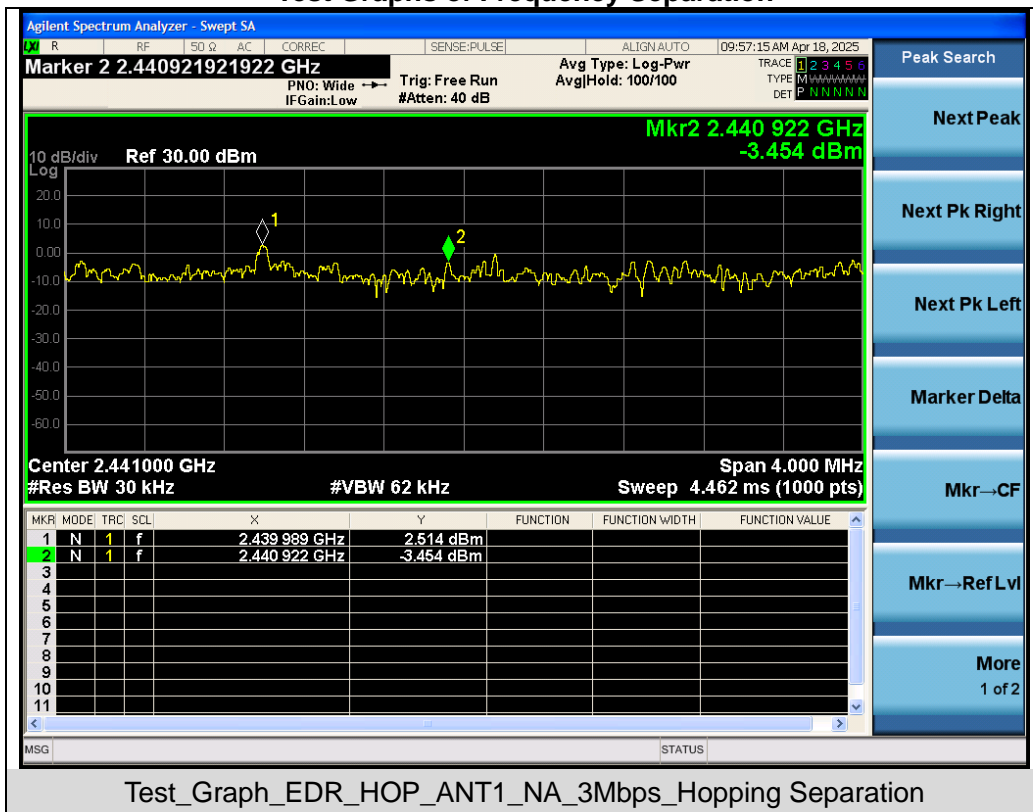


Test Graphs of Frequency Separation



Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Hopping Separation

Note: All mode rates are tested and evaluated, 8DPSK modulated 3DH5 mode is the worst case and documented in the report.

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13. AC Power Line Conducted Emission Test

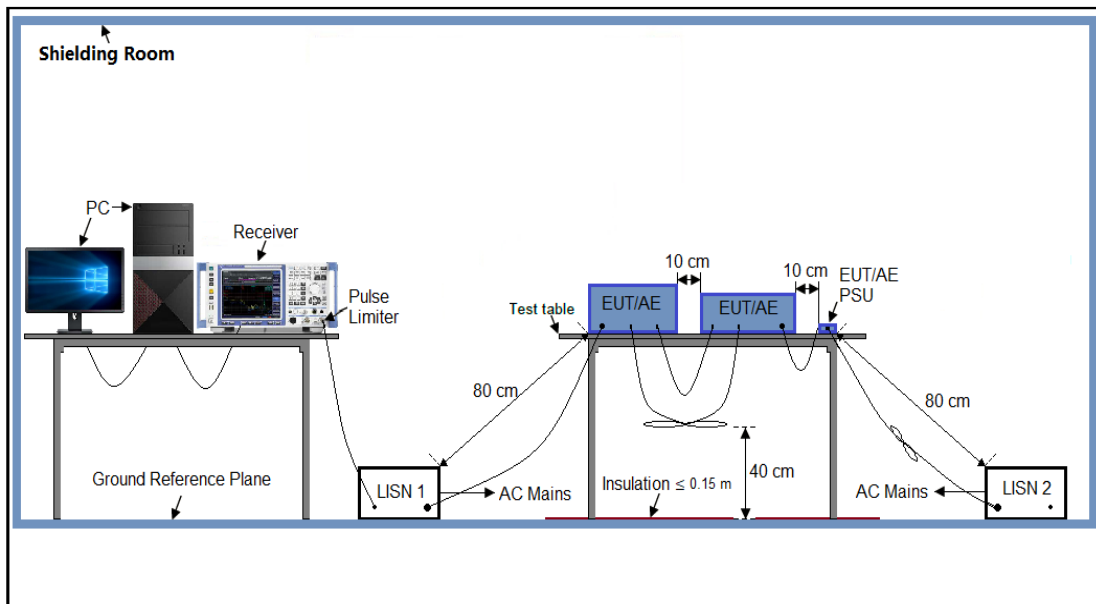
13.1 Measurement Limit

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|----------------------|
| | Q.P. (dB μ V) | Average (dB μ V) |
| 150kHz~500kHz | 66-56 | 56-46 |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2 Measurement Setup (Block Diagram of Configuration)



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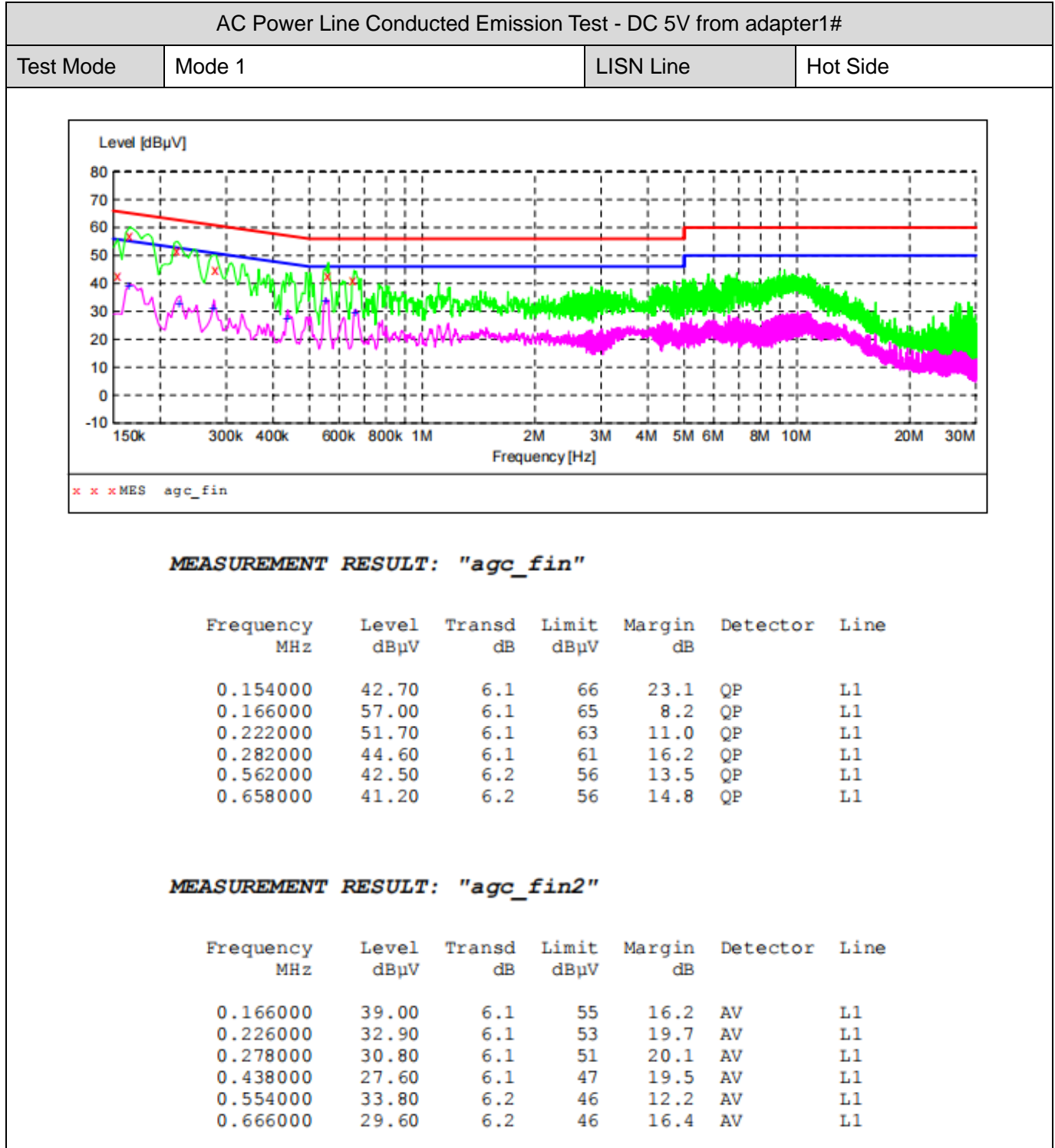
13.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side).
7. Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. The test mode(s) were scanned during the preliminary test.
11. Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
3. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
4. The test data of the worst case condition(s) was reported on the Summary Data page.
5. A conducted emission is calculated by the following equation:
 - Measurement Level (dB μV) = Receiver reading (dB μV) + Transd (dB)
 - Transd (dB) = AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin = Limit-Level

13.5 Measurement Result

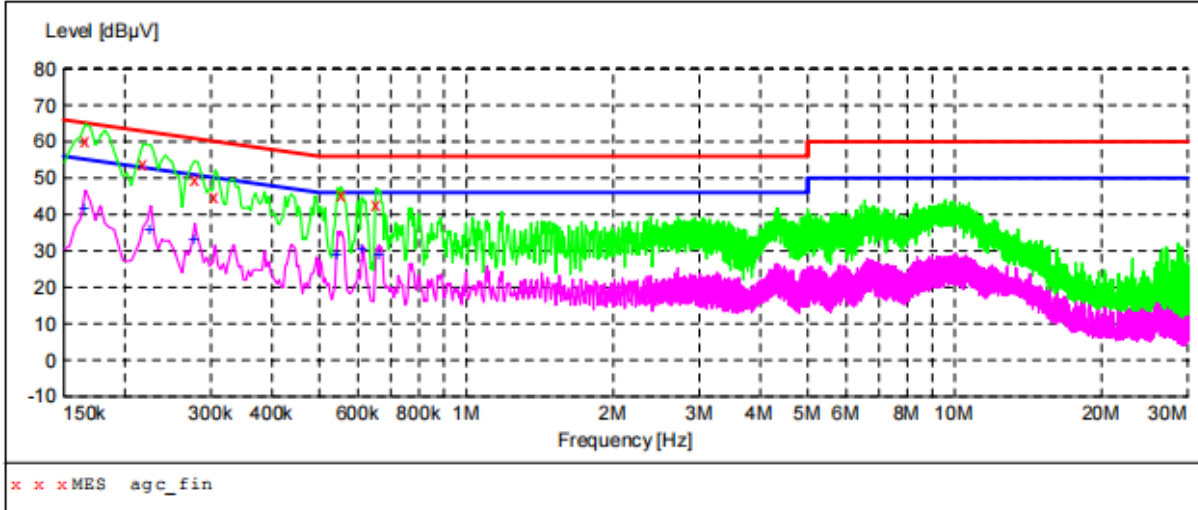


RESULT: PASS

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AC Power Line Conducted Emission Test - DC 5V from adapter1#

Test Mode Mode 1 LISN Line Neutral Side



MEASUREMENT RESULT: "agc_fin"

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|---------------|------------|-----------|------------|-----------|----------|------|
| 0.166000 | 60.40 | 6.1 | 65 | 4.8 | QP | N |
| 0.218000 | 53.80 | 6.1 | 63 | 9.1 | QP | N |
| 0.278000 | 49.70 | 6.1 | 61 | 11.2 | QP | N |
| 0.306000 | 44.80 | 6.1 | 60 | 15.3 | QP | N |
| 0.554000 | 45.20 | 6.2 | 56 | 10.8 | QP | N |
| 0.654000 | 42.50 | 6.2 | 56 | 13.5 | QP | N |

MEASUREMENT RESULT: "agc_fin2"

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|---------------|------------|-----------|------------|-----------|----------|------|
| 0.166000 | 41.90 | 6.1 | 55 | 13.3 | AV | N |
| 0.226000 | 35.60 | 6.1 | 53 | 17.0 | AV | N |
| 0.278000 | 33.00 | 6.1 | 51 | 17.9 | AV | N |
| 0.546000 | 28.70 | 6.2 | 46 | 17.3 | AV | N |
| 0.614000 | 30.30 | 6.2 | 46 | 15.7 | AV | N |
| 0.662000 | 28.80 | 6.2 | 46 | 17.2 | AV | N |

RESULT: PASS

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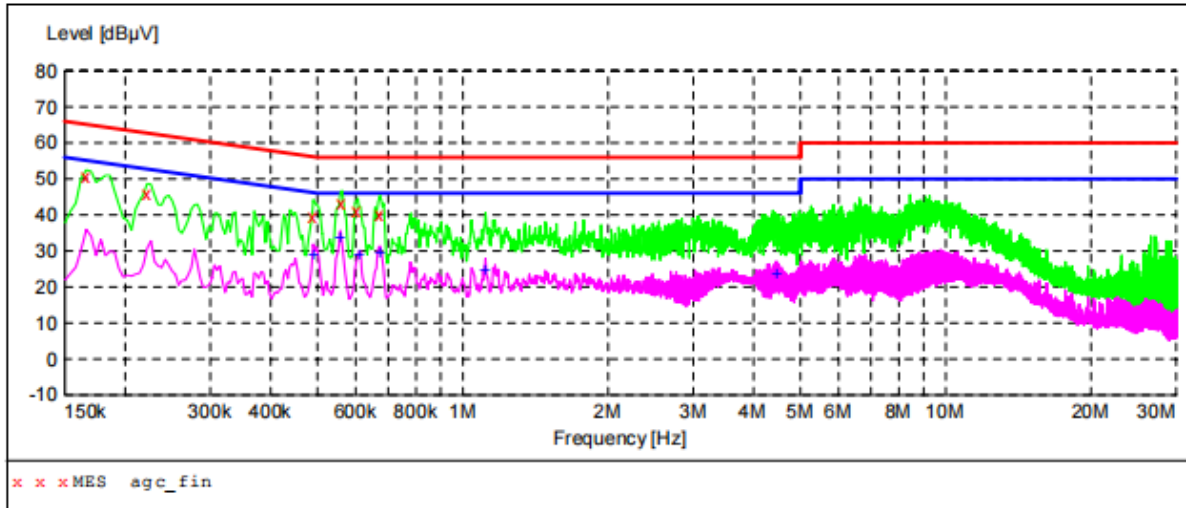
AC Power Line Conducted Emission Test - DC 5V from adapter2#

Test Mode

Mode 1

LISN Line

Hot Side



MEASUREMENT RESULT: "agc_fin"

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|---------------|------------|-----------|------------|-----------|----------|------|
| 0.166000 | 50.90 | 6.1 | 65 | 14.3 | QP | L1 |
| 0.222000 | 46.00 | 6.1 | 63 | 16.7 | QP | L1 |
| 0.490000 | 39.70 | 6.1 | 56 | 16.5 | QP | L1 |
| 0.562000 | 43.20 | 6.2 | 56 | 12.8 | QP | L1 |
| 0.606000 | 41.10 | 6.2 | 56 | 14.9 | QP | L1 |
| 0.674000 | 40.20 | 6.2 | 56 | 15.8 | QP | L1 |

MEASUREMENT RESULT: "agc_fin2"

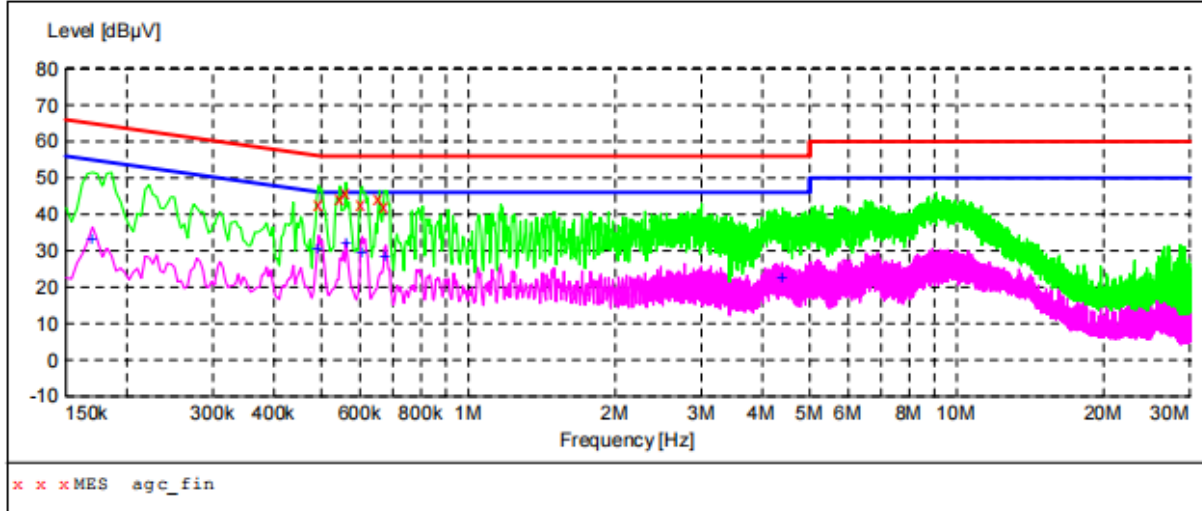
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|---------------|------------|-----------|------------|-----------|----------|------|
| 0.490000 | 29.10 | 6.1 | 46 | 17.1 | AV | L1 |
| 0.558000 | 33.80 | 6.2 | 46 | 12.2 | AV | L1 |
| 0.614000 | 29.00 | 6.2 | 46 | 17.0 | AV | L1 |
| 0.674000 | 29.40 | 6.2 | 46 | 16.6 | AV | L1 |
| 1.114000 | 24.50 | 6.2 | 46 | 21.5 | AV | L1 |
| 4.458000 | 23.60 | 6.3 | 46 | 22.4 | AV | L1 |

RESULT: PASS

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AC Power Line Conducted Emission Test - DC 5V from adapter2#

| | | | |
|-----------|--------|-----------|--------------|
| Test Mode | Mode 1 | LISN Line | Neutral Side |
|-----------|--------|-----------|--------------|



MEASUREMENT RESULT: "agc_fin"

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.494000 | 42.50 | 6.1 | 56 | 13.6 | QP | N |
| 0.546000 | 44.50 | 6.2 | 56 | 11.5 | QP | N |
| 0.562000 | 45.90 | 6.2 | 56 | 10.1 | QP | N |
| 0.606000 | 42.90 | 6.2 | 56 | 13.1 | QP | N |
| 0.658000 | 44.20 | 6.2 | 56 | 11.8 | QP | N |
| 0.674000 | 42.30 | 6.2 | 56 | 13.7 | QP | N |

MEASUREMENT RESULT: "agc_fin2"

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|------------------|---------------|--------------|---------------|--------------|----------|------|
| 0.170000 | 33.40 | 6.1 | 55 | 21.6 | AV | N |
| 0.494000 | 30.60 | 6.1 | 46 | 15.5 | AV | N |
| 0.562000 | 32.10 | 6.2 | 46 | 13.9 | AV | N |
| 0.606000 | 29.50 | 6.2 | 46 | 16.5 | AV | N |
| 0.678000 | 28.60 | 6.2 | 46 | 17.4 | AV | N |
| 4.390000 | 22.70 | 6.3 | 46 | 23.3 | AV | N |

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC14499250202AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC14499250202AP03

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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
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-----End of Report-----

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