



TEST REPORT

No. B22N02534-BT

for

TCL Communication Ltd.

GSM/UMTS/LTE /NR Mobile phone

Model Name: T609DL

with

Hardware Version: 04

Software Version: JSS8

FCC ID: 2ACCJH168

Issued Date: 2022-12-15

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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No. B22N02534-BT

REPORT HISTORY

| Report Number | Revision | Description | Issue Date |
|----------------------|-----------------|--------------------|-------------------|
| B22N02534-BT | Rev.0 | 1st edition | 2022-12-15 |

Note: the latest revision of the test report supersedes all previous versions.

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1. Summary of Test Report

1.1. Test Items

Description GSM/UMTS/LTE /NR Mobile phone
Model Name T609DL
Applicant's name TCL Communication Ltd.
Manufacturer's Name TCL Communication Ltd.

1.2. Test Standards

FCC Part15-2021; ANSI C63.10-2013.

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: EMC Laboratory, Building G, Shenzhen International Innovation Center, No.1006
Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date: 2022-12-06
Testing End Date: 2022-12-14

1.6. Signature

Huang Kaiyang
(Prepared this test report)

Huang Yuqing
(Reviewed this test report)

Cao Junfei
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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Contact Person: Annie Jiang
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong
Contact Person: Annie Jiang
E-Mail: nianxiang.jiang@tcl.com
Telephone: +86 755 3661 1621
Fax: +86 755 3661 2000-81722



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

| | |
|------------------------------|-------------------------------|
| Description | GSM/UMTS/LTE /NR Mobile phone |
| Model Name | T609DL |
| Frequency Band | ISM 2400MHz~2483.5MHz |
| Equipment type | Bluetooth® BR/EDR |
| Type of Modulation | GFSK/π/4 DQPSK/8DPSK |
| Number of Channels | 79 |
| Antenna Type | Integrated antenna |
| Power Supply | 3.85V DC by Battery |
| FCC ID | 2ACCJH168 |
| Condition of EUT as received | No abnormality in appearance |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version | Date of Receipt |
|---------|-----------------|------------|------------|-----------------|
| UT03aa | 016320000014344 | 04 | JSS8 | 2022-12-05 |
| UT05aa | 016320000013742 | 04 | JSS8 | 2022-12-05 |

*EUT ID: is used to identify the test sample in the lab internally.

UT05aa is used for radiation test, and UT03aa is used for AC Power line Conducted Emission test.

3.3. Internal Identification of AE used during the test

| AE No. | Description | AE ID* |
|--------|-------------|--------|
| AE1 | Battery | |
| AE2 | Charger | |
| AE3 | USB Cable | |

AE1-1

| | |
|-----------------|--------------|
| Model | TLp048D7 |
| S/N | CAC4850007C7 |
| Manufacturer | VEKEN |
| Capacity | 5000mAh |
| Nominal Voltage | 3.85 V |

AE2-1

| | |
|--------------|--------------|
| Model | CBA0064BGTC5 |
| Manufacturer | PUAN |

AE2-2

| | |
|--------------|--------------|
| Model | CBA0064BGTC1 |
| Manufacturer | BYD |

AE3-1



Model CDA0000198C1
Manufacturer JUWEI

AE3-2

Model CDA0000198C2
Manufacturer SHENGHUA

AE3-3

Model CDA0000201C2
Manufacturer SHENGHUA

AE3-4

Model CDA0000202C1
Manufacturer JUWEI

*AE ID: is used to identify the test sample in the lab internally.

AE: ancillary equipment.

3.4. General Description

The Equipment under Test (EUT) is a model of GSM/UMTS/LTE /NR Mobile phone with integrated antenna and battery.

It consists of normal options: Battery, Charger, and USB Cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.



4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|-------------|---|---------|
| FCC Part 15 | FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz | 2021 |
| ANSI C63.10 | American National Standard of Procedures for Compliance 2013 Testing of Unlicensed Wireless Devices | |

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

5.2. Test Results

| No | Test cases | Sub-clause of Part 15C | Verdict |
|----|----------------------------------|------------------------|---------|
| 1 | Radiated Emission | 15.247,15.205,15.209 | P |
| 2 | AC Power line Conducted Emission | 15.107,15.207 | P |

See **ANNEX A** for details.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

Disclaimer:

- A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.
- B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.



6. Measuring Apparatus Utilized

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date | Calibration Period |
|-----|-------------------|-----------------------|---------------|-----------------|----------------------|--------------------|
| 1 | Test Receiver | ESR7 | 101676 | Rohde & Schwarz | 2023-11-23 | 1 year |
| 2 | BiLog Antenna | 3142E | 0224831 | ETS-Lindgren | 2024-05-27 | 3 years |
| 3 | Horn Antenna | 3117 | 00066577 | ETS-Lindgren | 2025-04-17 | 3 years |
| 4 | Anechoic Chamber | FACT3-2.0 | 1285 | ETS-Lindgren | 2023-05-29 | 2 years |
| 5 | Spectrum Analyzer | FSV40 | 101192 | Rohde & Schwarz | 2023-01-12 | 1 year |
| 6 | Loop Antenna | HLA6120 | 35779 | TESEQ | 2025-05-10 | 3 years |
| 7 | Horn Antenna | QSH-SL-1 8-26-S-20 | 17013 | Q-par | 2023-01-06 | 3 years |
| 8 | Test Receiver | ESCI | 100702 | Rohde & Schwarz | 2023-01-12 | 1 year |
| 9 | LISN | ENV216 | 102067 | Rohde & Schwarz | 2023-07-14 | 1 year |

Test software

| No. | Equipment | Manufacturer | Version |
|-----|-----------|-----------------|----------|
| 1 | EMC32 | Rohde & Schwarz | 10.50.40 |

EUT is engineering software provided by the customer to control the transmitting signal.

The EUT was programmed to be in continuously transmitting mode.

7. Laboratory Environment

Shielded room did not exceed following limits along the EMC testing:

| | |
|--------------------------|--|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 20 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz-1MHz > 60 dB; 1MHz-18000MHz > 90 dB |
| Electrical insulation | > 2MΩ |
| Ground system resistance | < 4Ω |

Anechoic chamber (FACT3-2.0) did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

| | |
|------------------------------------|--|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 20 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz-1MHz > 60 dB; 1MHz-18000MHz > 90 dB |
| Electrical insulation | > 2MΩ |
| Ground system resistance | < 4Ω |
| Normalised site attenuation (NSA) | < ±4 dB, 3 m distance, from 30 to 1000 MHz |
| Voltage Standing Wave Ratio (VSWR) | ≤ 6 dB, from 1 to 18 GHz, 3 m distance |
| Uniformity of field strength | Between 0 and 6 dB, from 80 to 6000 MHz |

8. Measurement Uncertainty

| Test Name | Uncertainty (<i>k</i> =2) | |
|----------------------------------|----------------------------|--------|
| Radiated Emission | 9kHz≤f<30MHz | 1.79dB |
| | 30MHz≤f<1GHz | 4.86dB |
| | 1GHz≤f<18GHz | 4.82dB |
| | 18GHz≤f≤40GHz | 2.90dB |
| AC Power line Conducted Emission | 150kHz≤f≤30MHz | 2.62dB |

ANNEX A: Detailed Test Results

Test Configuration

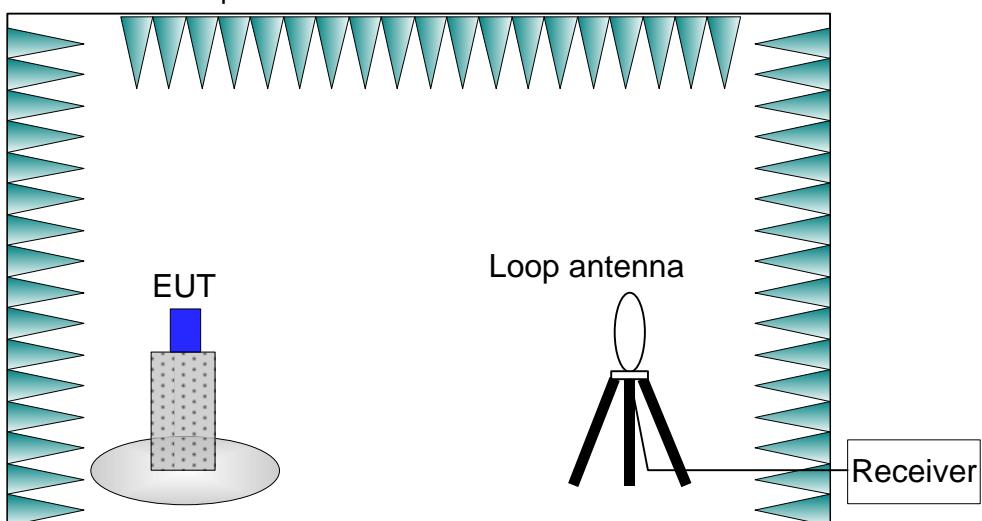
The measurement is made according to ANSI C63.10.

1) Radiated Measurements

Test setup:

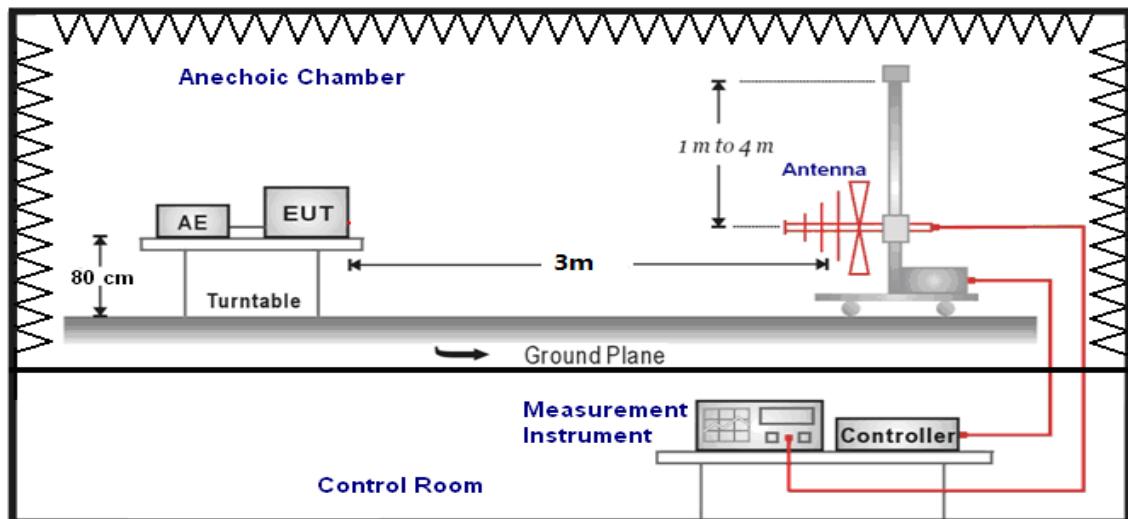
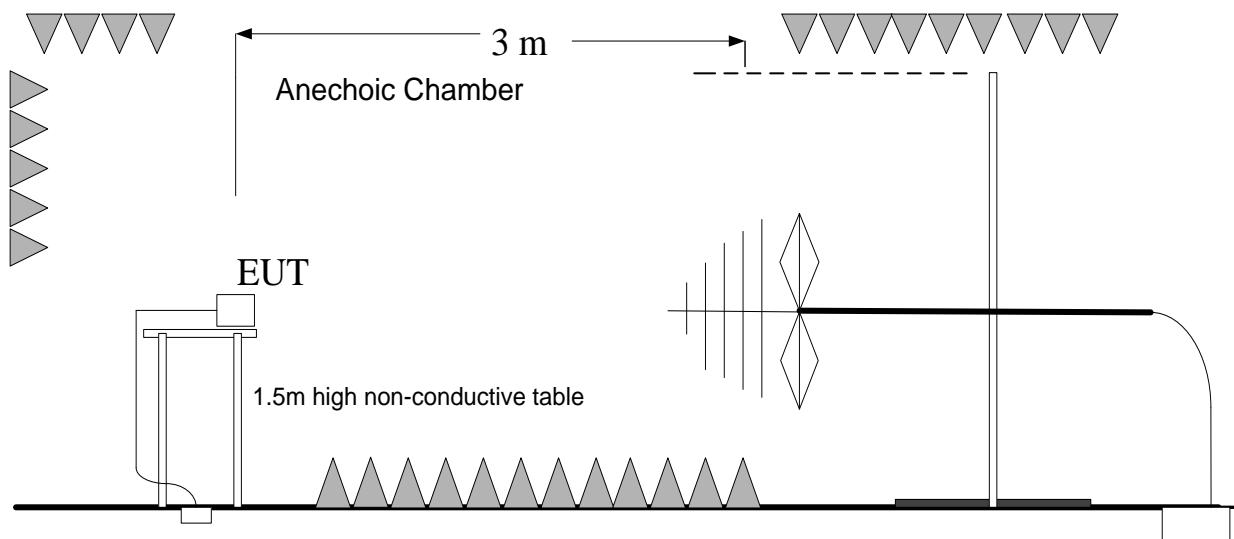
9kHz-30MHz:

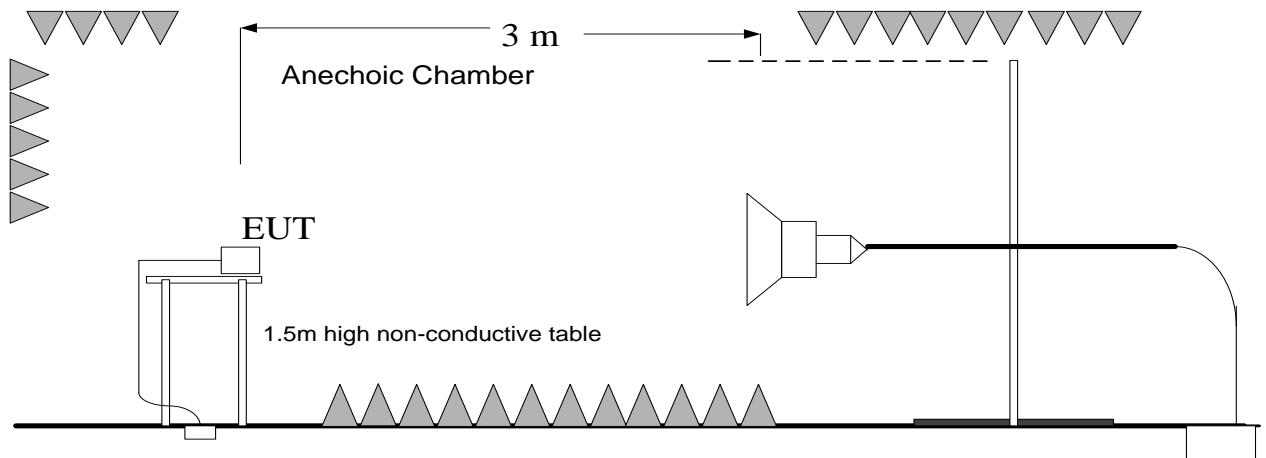
The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



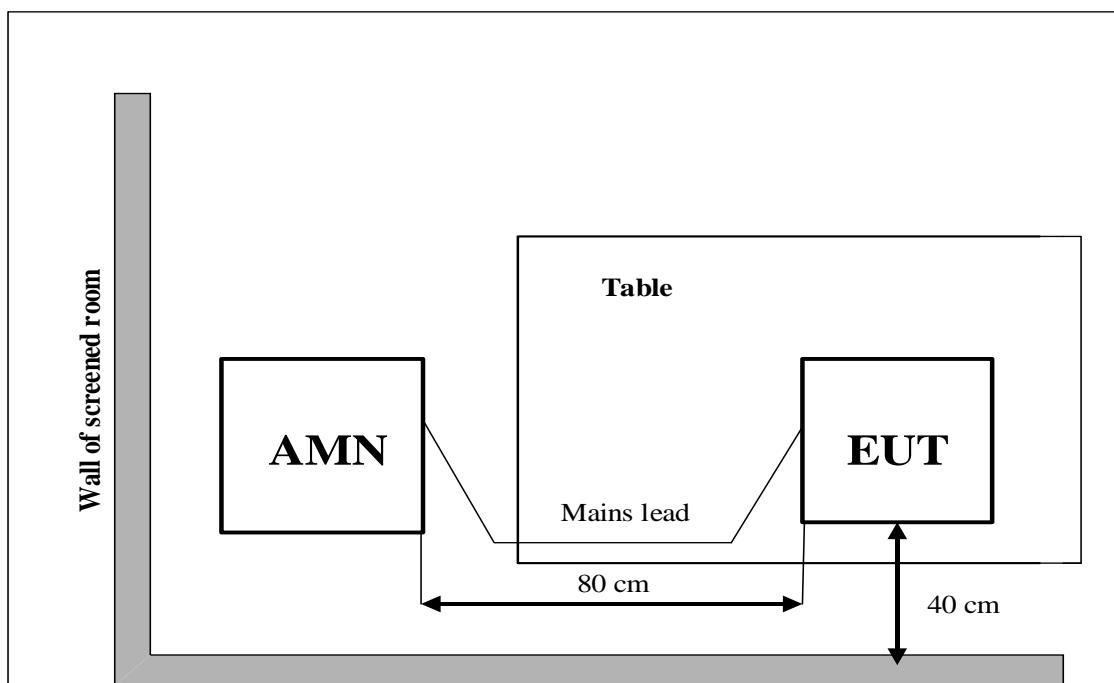
30MHz-26.5GHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

30MHz-1GHz:

1GHz-3GHz:


3GHz-26.5GHz:

2) AC Power line Conducted Emission Measurement

The EUT is working as Bluetooth terminal. A communication link of Bluetooth is set up with a System Simulator (SS). The EUT is commanded to operate at maximum transmitting power.





A.1 Radiated Emission

Method of Measurement: See ANSI C63.10-clause 6.3&6.4&6.5&6.6.

Measurement Limit:

| Standard | Limit (dBm) |
|--|-------------------------------|
| FCC 47 CFR Part 15.247, 15.205, 15.209 | 20dBm below peak output power |

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

| Frequency of emission (MHz) | Field strength(µV/m) | Measurement distance(meters) |
|-----------------------------|----------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Test Condition:

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

| Frequency of emission (MHz) | RBW/VBW | Sweep Time(s) |
|-----------------------------|---------------|---------------|
| 30-1000 | 120kHz/300kHz | 5 |
| 1000-4000 | 1MHz/3MHz | 15 |
| 4000-18000 | 1MHz/3MHz | 40 |
| 18000-26500 | 1MHz/3MHz | 20 |

Note: According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic. The measurement results include the horizontal polarization and vertical polarization measurements. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Measurement Results:

| Mode | Frequency (MHz) | Frequency Range | Test Results | Conclusion |
|------------------|------------------------|---------------------|--------------|------------|
| GFSK | 2402(CH0) | 1 GHz ~18 GHz | Fig.1 | P |
| | 2441(CH39) | 1 GHz ~18 GHz | Fig.2 | P |
| | 2480(CH78) | 1 GHz ~18 GHz | Fig.3 | P |
| | Restricted Band(CH0) | 2.38 GHz ~ 2.45 GHz | Fig.4 | P |
| | Restricted Band (CH78) | 2.45 GHz ~ 2.5 GHz | Fig.5 | P |
| $\pi/4$ DQPSK | 2402(CH0) | 1 GHz ~18 GHz | Fig.6 | P |
| | 2441(CH39) | 1 GHz ~18 GHz | Fig.7 | P |
| | 2480(CH78) | 1 GHz ~18 GHz | Fig.8 | P |
| | Restricted Band (CH0) | 2.38 GHz ~ 2.45 GHz | Fig.9 | P |
| | Restricted Band (CH78) | 2.45 GHz ~ 2.5 GHz | Fig.10 | P |
| 8DPSK | 2402(CH0) | 1 GHz ~18 GHz | Fig.11 | P |
| | 2441(CH39) | 1 GHz ~18 GHz | Fig.12 | P |
| | 2480(CH78) | 1 GHz ~18 GHz | Fig.13 | P |
| | Restricted Band (CH0) | 2.38 GHz ~ 2.45 GHz | Fig.14 | P |
| | Restricted Band (CH78) | 2.45 GHz ~ 2.5 GHz | Fig.15 | P |
| / | All channels | 9 kHz ~30 MHz | Fig.16 | P |
| | | 30 MHz ~1 GHz | Fig.17 | P |
| | | 18 GHz ~26.5 GHz | Fig.18 | P |

Worst Case Result
GFSK CH78 (1-18GHz)

| Frequency (MHz) | MaxPeak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----|--------------|
| 2893.200000 | 47.90 | 74.00 | 26.10 | H | 10.58 |
| 3491.400000 | 35.99 | 74.00 | 38.01 | H | -13.79 |
| 4959.600000 | 40.97 | 74.00 | 33.03 | H | -8.98 |
| 7439.600000 | 41.99 | 74.00 | 32.01 | H | -2.42 |
| 14289.200000 | 51.01 | 74.00 | 22.99 | V | 6.26 |
| 17984.000000 | 55.18 | 74.00 | 18.82 | H | 14.14 |

| Frequency (MHz) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----|--------------|
| 2893.200000 | 34.81 | 54.00 | 19.19 | H | 10.58 |
| 3491.400000 | 22.48 | 54.00 | 31.52 | H | -13.79 |
| 4959.600000 | 36.44 | 54.00 | 17.56 | H | -8.98 |
| 7439.600000 | 34.45 | 54.00 | 19.55 | H | -2.42 |
| 14289.200000 | 37.52 | 54.00 | 16.48 | V | 6.26 |
| 17984.000000 | 43.45 | 54.00 | 10.55 | H | 14.14 |

 **$\pi/4$ DQPSK CH78 (1-18GHz)**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----|--------------|
| 2949.600000 | 47.93 | 74.00 | 26.07 | V | 10.73 |
| 3969.000000 | 36.37 | 74.00 | 37.63 | H | -11.93 |
| 4959.900000 | 39.38 | 74.00 | 34.62 | H | -8.98 |
| 10598.000000 | 47.16 | 74.00 | 26.84 | H | 1.52 |
| 14823.200000 | 50.77 | 74.00 | 23.23 | H | 6.40 |
| 17989.200000 | 54.81 | 74.00 | 19.19 | H | 14.04 |

| Frequency (MHz) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----|--------------|
| 2949.600000 | 34.84 | 54.00 | 19.16 | V | 10.73 |
| 3969.000000 | 23.08 | 54.00 | 30.92 | H | -11.93 |
| 4959.900000 | 30.48 | 54.00 | 23.52 | H | -8.98 |
| 10598.000000 | 34.07 | 54.00 | 19.93 | H | 1.52 |
| 14823.200000 | 38.29 | 54.00 | 15.71 | H | 6.40 |
| 17989.200000 | 43.26 | 54.00 | 10.74 | H | 14.04 |

8DPSK CH78 (1-18GHz)

| Frequency (MHz) | MaxPeak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----|--------------|
| 2789.200000 | 47.85 | 74.00 | 26.15 | V | 10.67 |
| 3818.700000 | 35.09 | 74.00 | 38.91 | H | -12.53 |
| 4959.900000 | 37.68 | 74.00 | 36.32 | V | -8.98 |
| 9098.000000 | 44.75 | 74.00 | 29.25 | H | -1.48 |
| 14803.600000 | 50.73 | 74.00 | 23.27 | H | 6.53 |
| 17987.600000 | 54.80 | 74.00 | 19.20 | H | 14.07 |

| Frequency (MHz) | Average (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----|--------------|
| 2789.200000 | 35.28 | 54.00 | 18.72 | V | 10.67 |
| 3818.700000 | 22.98 | 54.00 | 31.02 | H | -12.53 |
| 4959.900000 | 32.66 | 54.00 | 21.34 | V | -8.98 |
| 9098.000000 | 31.30 | 54.00 | 22.70 | H | -1.48 |
| 14803.600000 | 37.65 | 54.00 | 16.35 | H | 6.53 |
| 17976.400000 | 41.76 | 54.00 | 12.24 | V | 14.29 |

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and Antenna Factor, the gain of the preamplifier, the cable loss. P_{Mea} is the field strength recorded from the instrument. The measurement results are obtained as described below:

Result= P_{Mea} + Cable Loss + Antenna Factor-Gain of the preamplifier.

See below for test graphs.

Conclusion: Pass

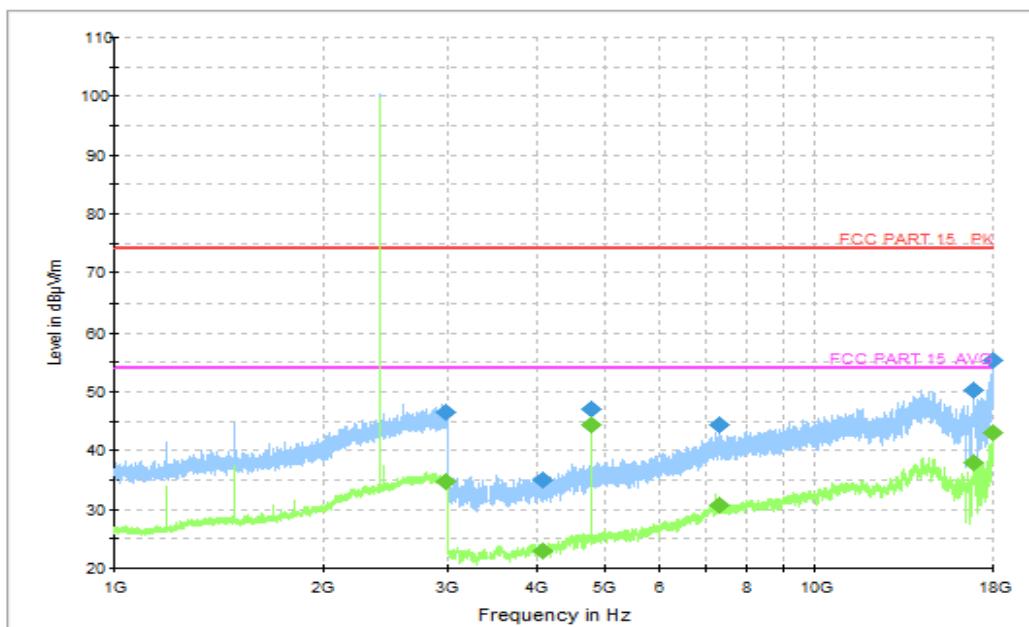


Fig. 1 Radiated Spurious Emission (GFSK, CH0, 1GHz ~18GHz)

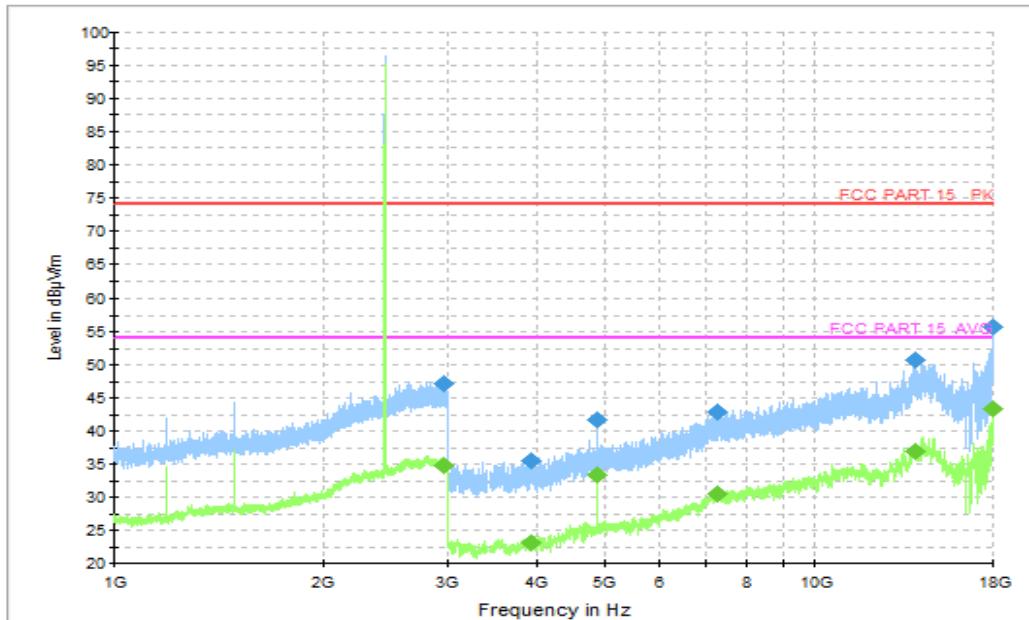


Fig. 2 Radiated Spurious Emission (GFSK, CH39, 1GHz ~18GHz)

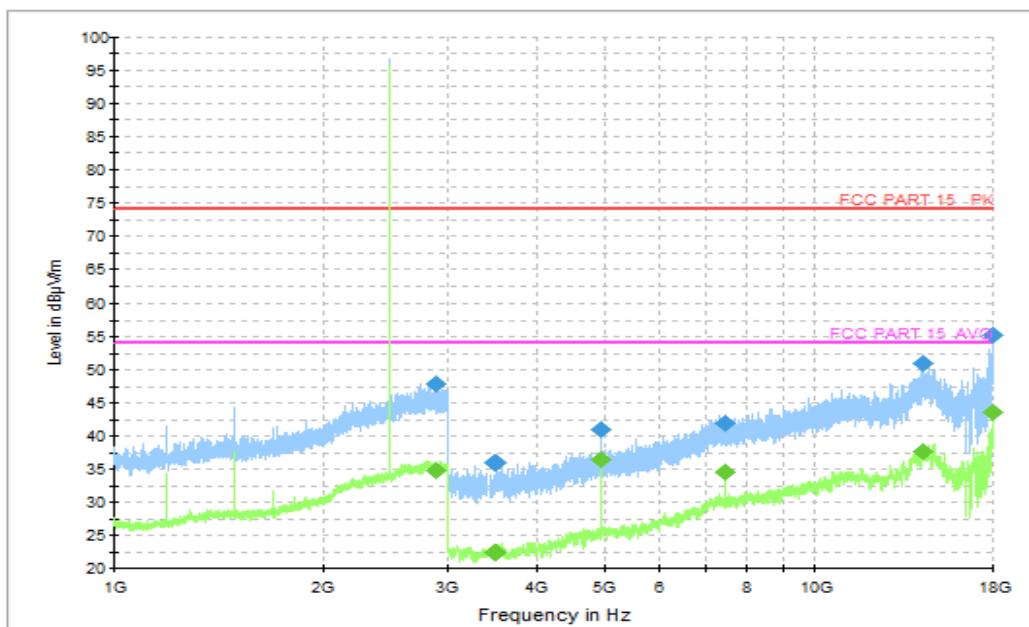


Fig. 3 Radiated Spurious Emission (GFSK, CH78, 1GHz ~18GHz)

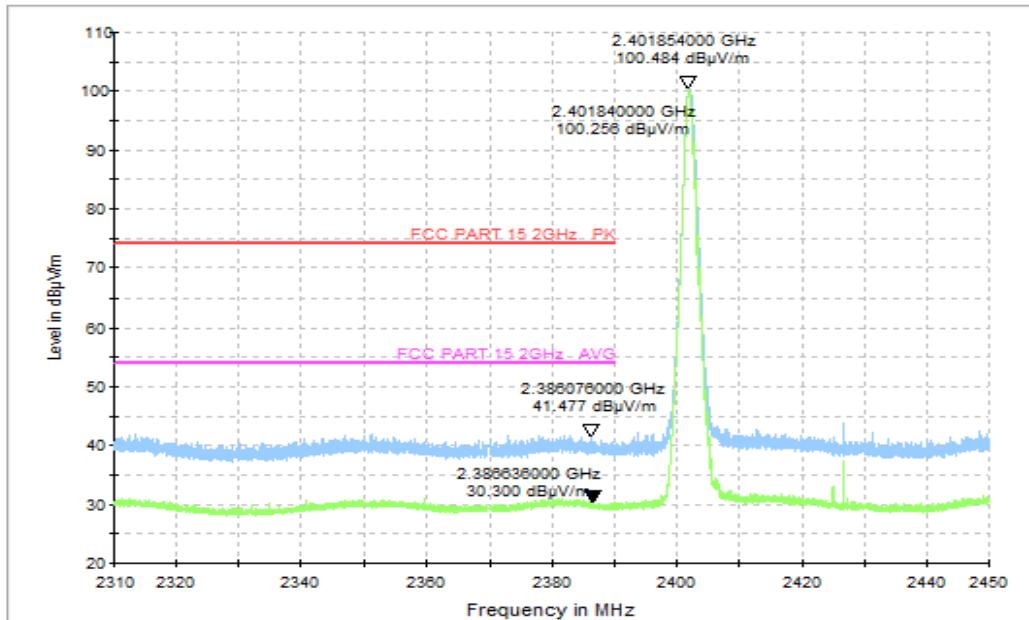


Fig. 4 Radiated Band Edges (GFSK, CH0, 2.38GHz~2.45GHz)

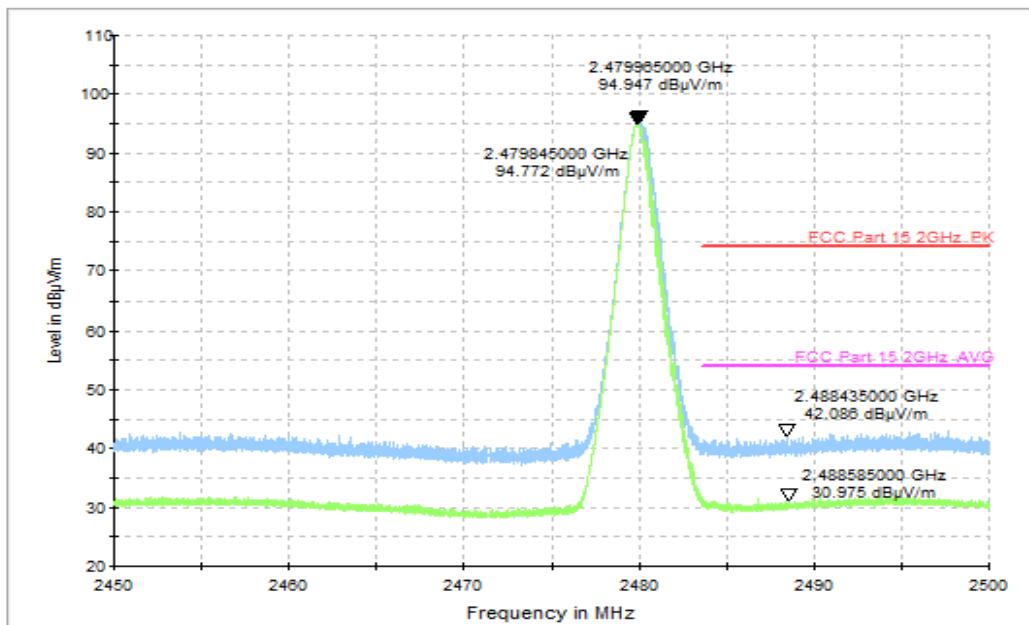


Fig. 5 Radiated Band Edges (GFSK, CH78, 2.45GHz~2.50GHz)

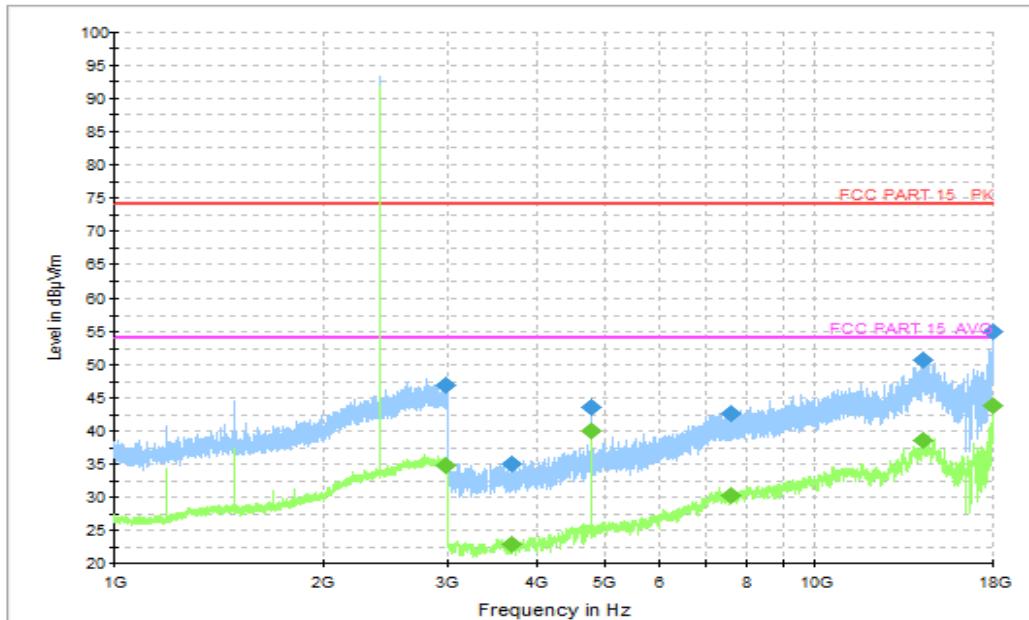


Fig. 6 Radiated Spurious Emission ($\pi/4$ DQPSK, CH0, 1GHz ~18GHz)

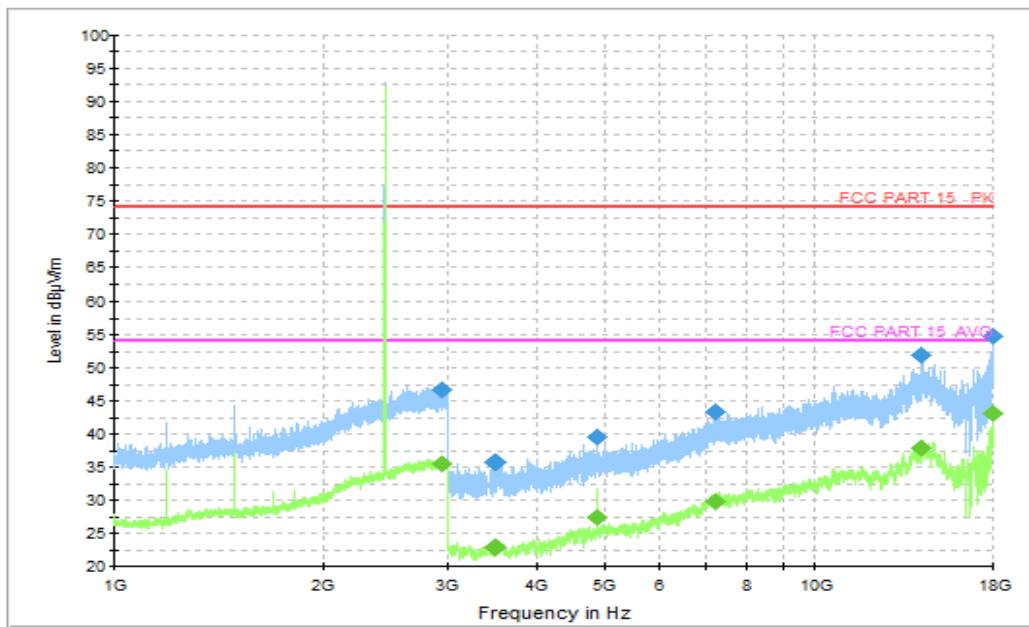


Fig. 7 Radiated Spurious Emission ($\pi/4$ DQPSK, CH39, 1GHz ~18GHz)

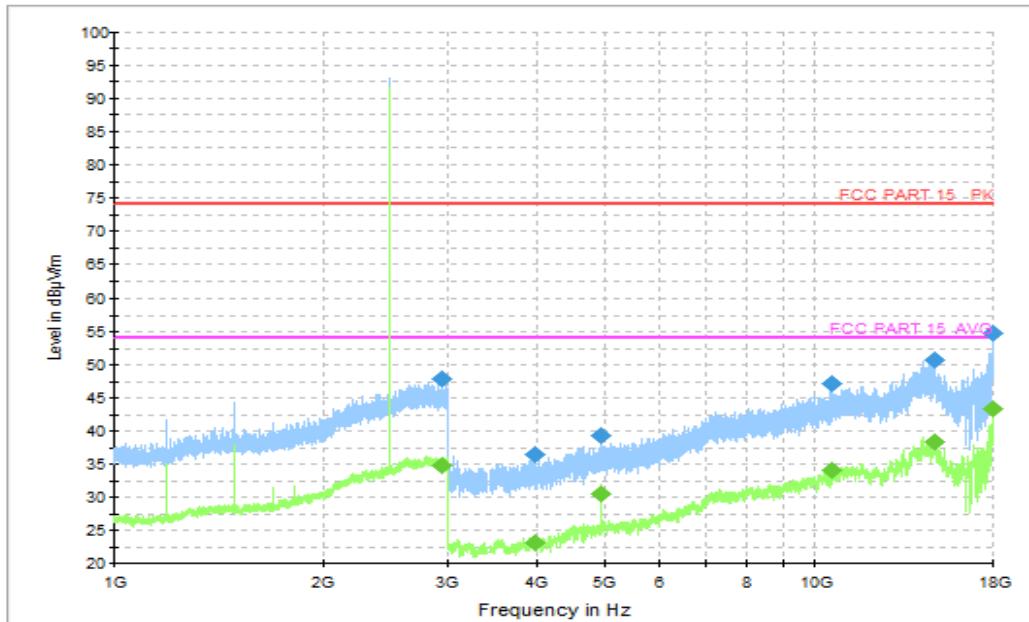


Fig. 8 Radiated Spurious Emission ($\pi/4$ DQPSK, CH78, 1GHz ~18GHz)

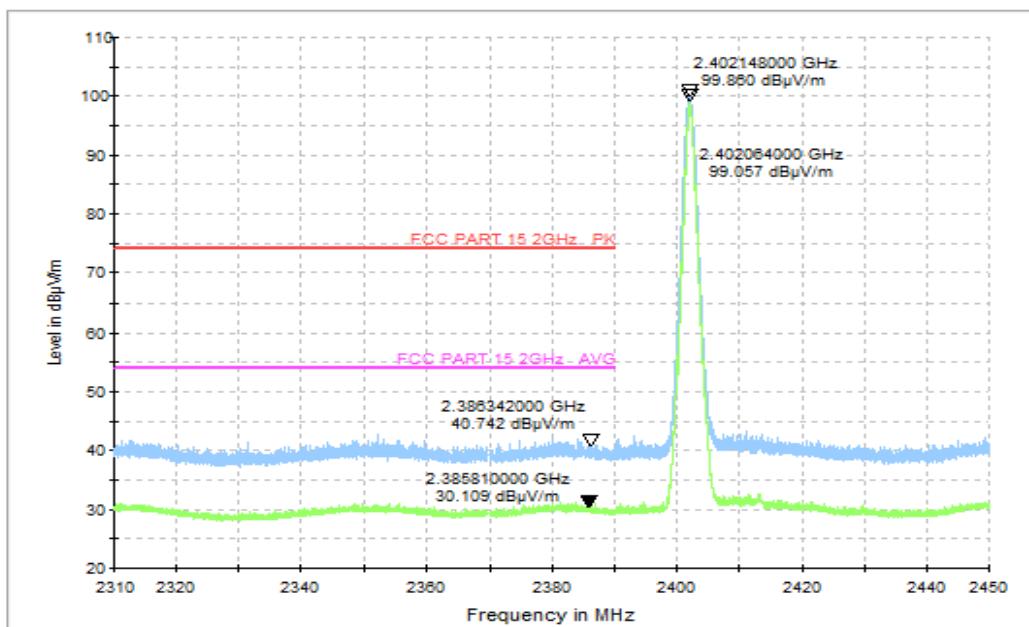


Fig. 9 Radiated Band Edges ($\pi/4$ DQPSK, CH0, 2.38GHz~2.45GHz)

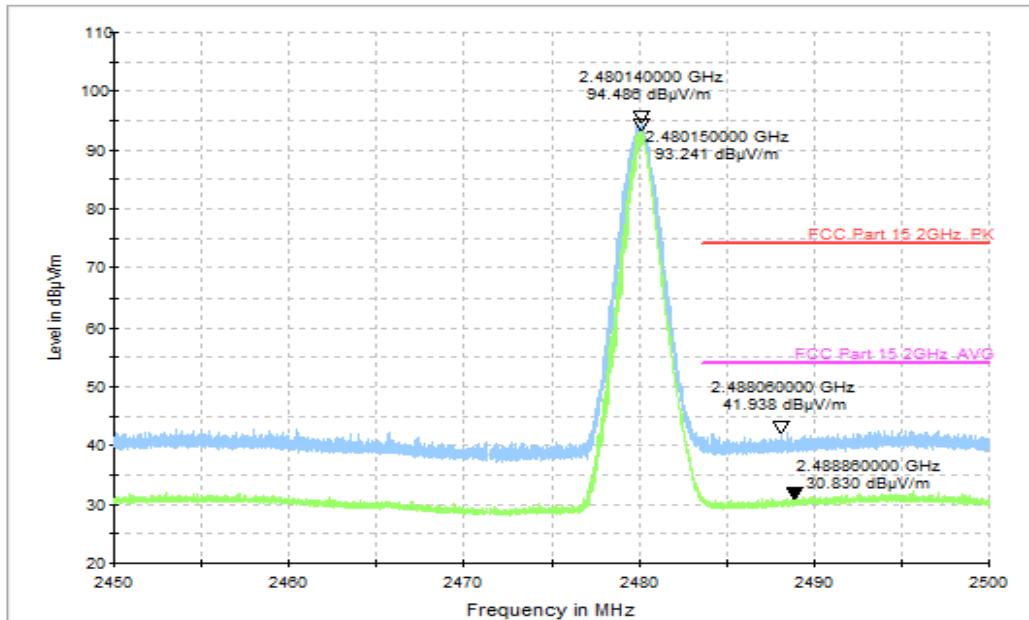


Fig. 10 Radiated Band Edges ($\pi/4$ DQPSK, CH78, 2.45GHz~2.50GHz)

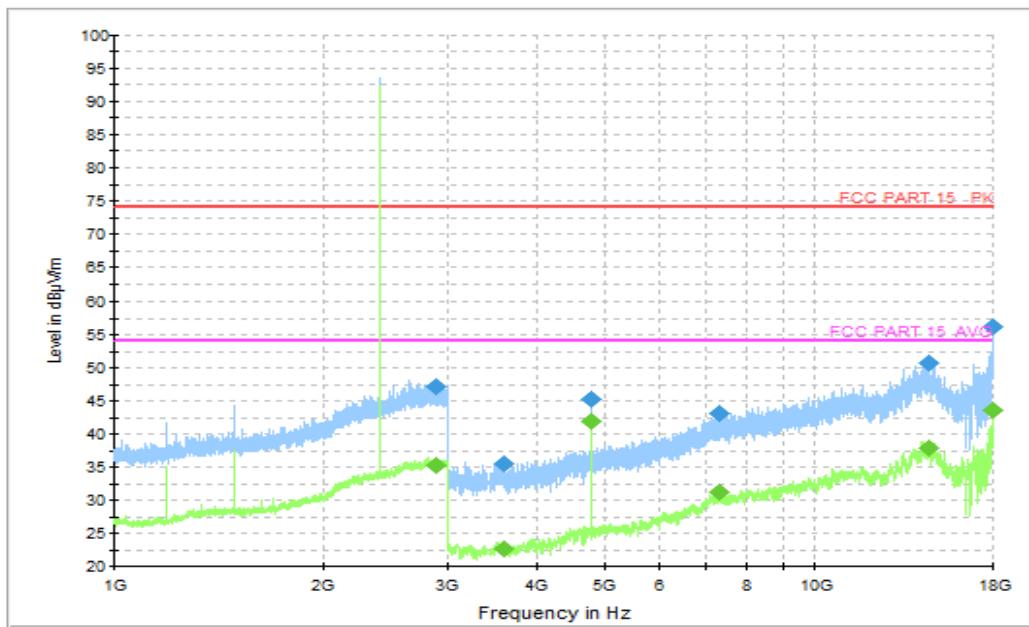


Fig. 11 Radiated Spurious Emission (8DPSK, CH0, 1GHz ~18GHz)

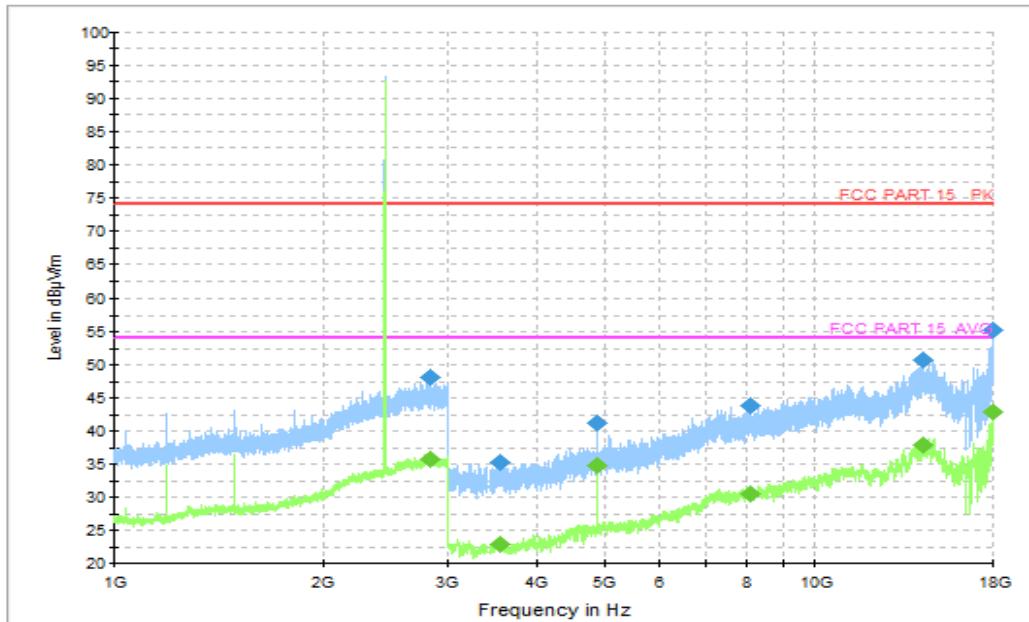


Fig. 12 Radiated Spurious Emission (8DPSK, CH39, 1GHz ~18GHz)

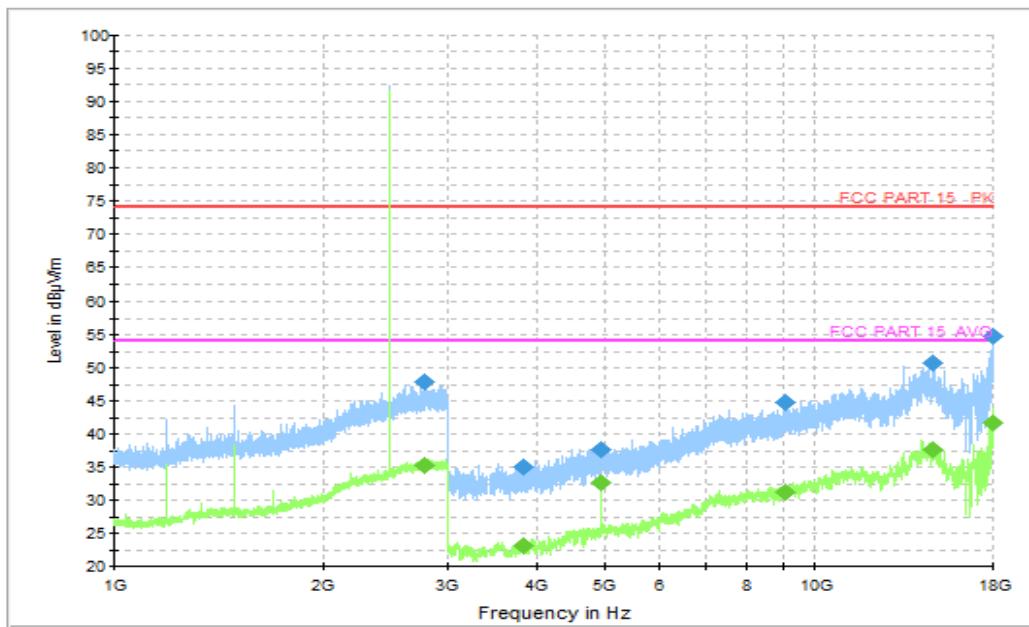


Fig. 13 Radiated Spurious Emission (8DPSK, CH78, 1GHz ~18GHz)

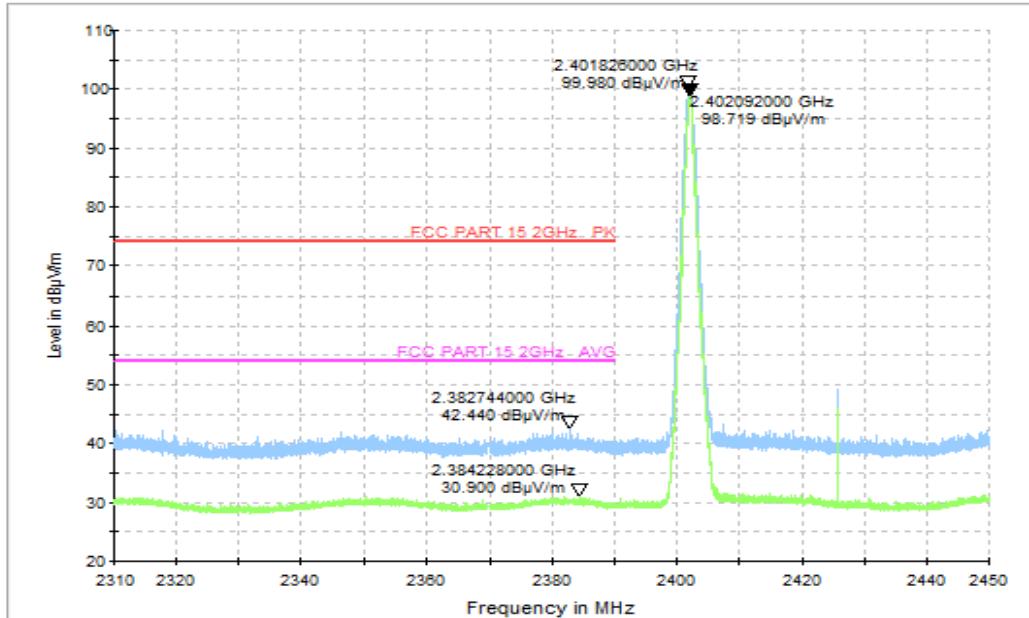


Fig. 14 Radiated Band Edges (8DPSK, CH0, 2.38GHz~2.45GHz)

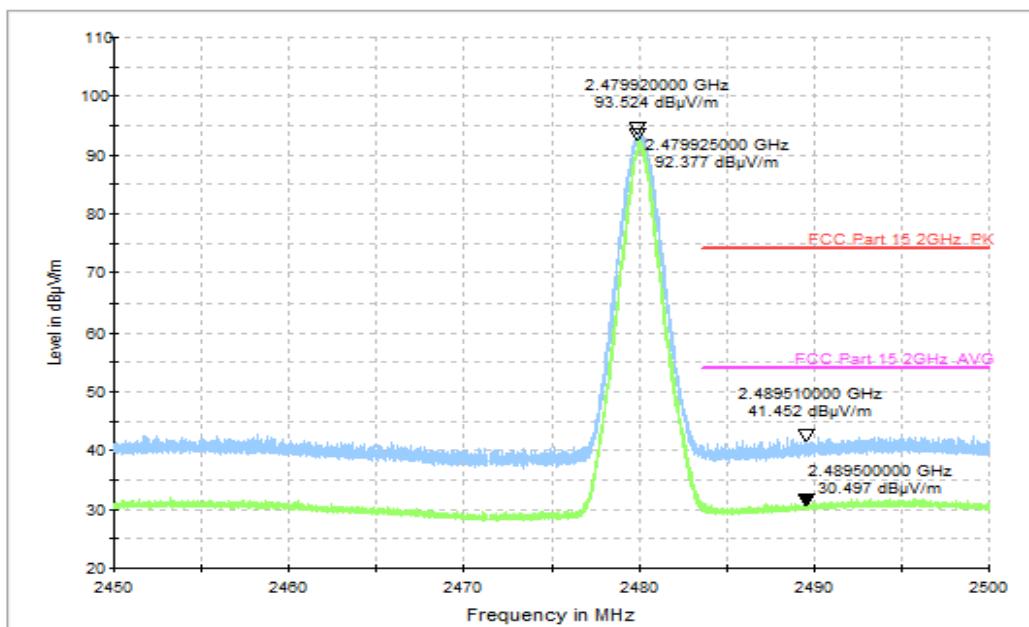


Fig. 15 Radiated Band Edges (8DPSK, CH78, 2.45GHz~2.50GHz)

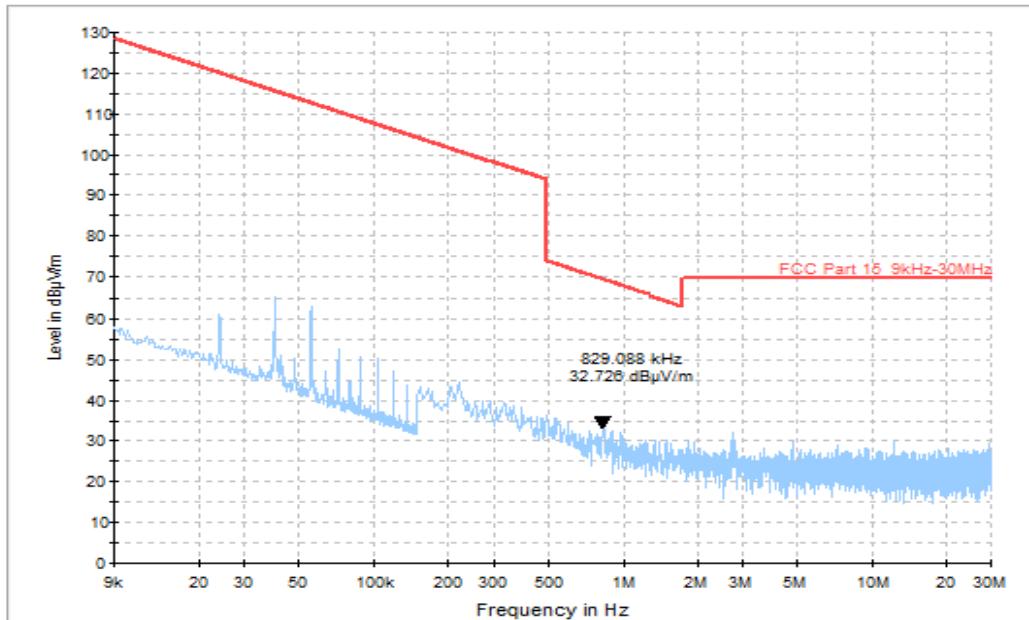


Fig. 16 Radiated Spurious Emission (All Channels, 9kHz ~30MHz)

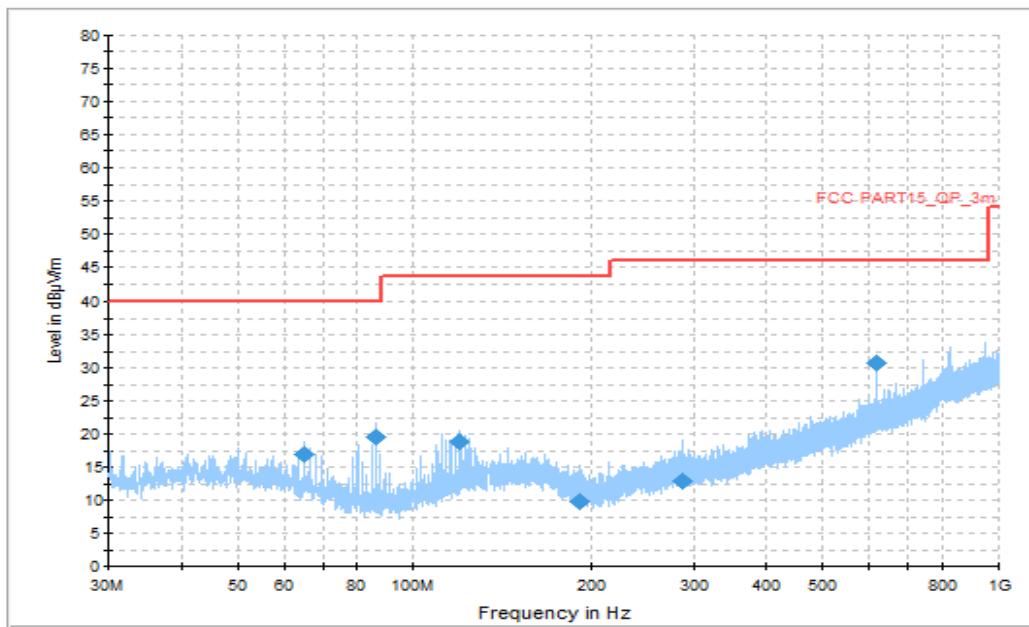


Fig. 17 Radiated Spurious Emission (All Channels, 30MHz ~1GHz)

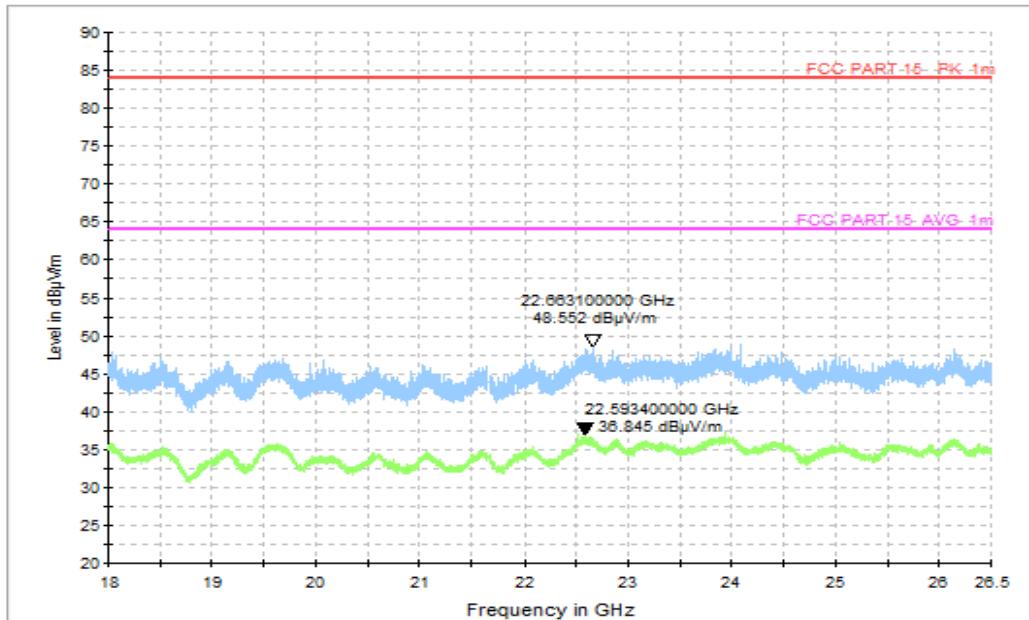


Fig. 18 Radiated Spurious Emission (All Channels, 18GHz ~26.5GHz)

A.2 AC Power line Conducted Emission

Method of Measurement: See ANSI C63.10-clause 6.2.

Test Condition:

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120 | 60 |

Measurement Result and limit:

BT- AE2-1, AE3-1

| Frequency range (MHz) | Quasi-peak Limit (dB μ V) | Average-peak Limit (dB μ V) | Result (dB μ V) | | Conclusion |
|-----------------------|-------------------------------|---------------------------------|---------------------|--------|------------|
| | | | Traffic | Idle | |
| 0.15 to 0.5 | 66 to 56 | 56 to 46 | Fig.19 | Fig.20 | P |
| 0.5 to 5 | 56 | 46 | | | |
| 5 to 30 | 60 | 50 | | | |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: The measurement results include the L1 and N measurements.

See below for test graphs.

Conclusion: Pass

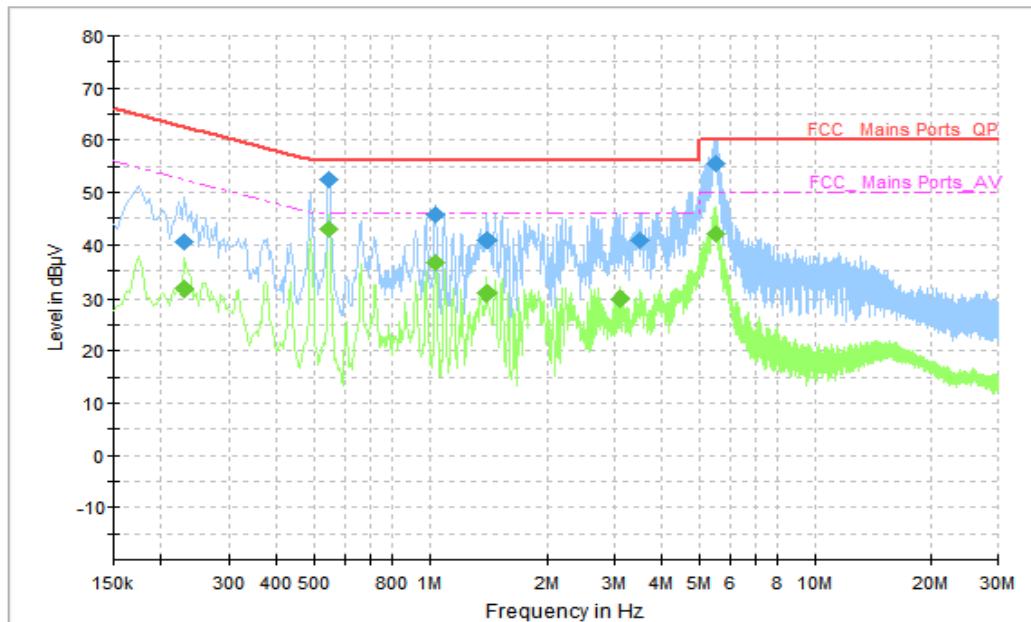


Fig. 19 AC Power line Conducted Emission (Traffic)

Measurement Results: Quasi Peak

| Frequency (MHz) | Quasi Peak (dB μ V) | Limit (dB μ V) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|-------------------------|--------------------|-------------|------|--------|------------|
| 0.230000 | 40.43 | 62.45 | 22.02 | N | ON | 10 |
| 0.546000 | 52.43 | 56.00 | 3.57 | N | ON | 10 |
| 1.034000 | 45.78 | 56.00 | 10.22 | N | ON | 10 |
| 1.406000 | 40.78 | 56.00 | 15.22 | N | ON | 10 |
| 3.486000 | 40.77 | 56.00 | 15.23 | N | ON | 10 |
| 5.506000 | 55.55 | 60.00 | 4.45 | N | ON | 11 |

Measurement Results: Average

| Frequency (MHz) | Average (dB μ V) | Limit (dB μ V) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|----------------------|--------------------|-------------|------|--------|------------|
| 0.230000 | 31.59 | 52.45 | 20.86 | N | ON | 10 |
| 0.546000 | 42.94 | 46.00 | 3.06 | N | ON | 10 |
| 1.034000 | 36.52 | 46.00 | 9.48 | N | ON | 10 |
| 1.410000 | 30.88 | 46.00 | 15.12 | N | ON | 10 |
| 3.114000 | 29.97 | 46.00 | 16.03 | N | ON | 11 |
| 5.494000 | 41.95 | 50.00 | 8.05 | N | ON | 11 |

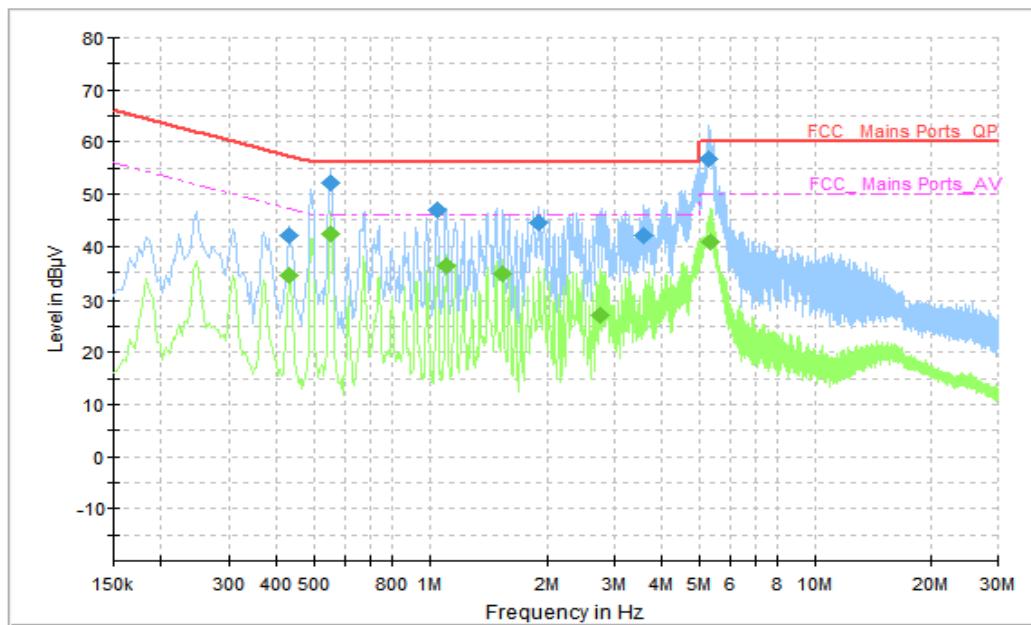


Fig. 20 AC Power line Conducted Emission (Idle)

Measurement Results: Quasi Peak

| Frequency (MHz) | Quasi Peak (dB μ V) | Limit (dB μ V) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|-------------------------|--------------------|-------------|------|--------|------------|
| 0.430000 | 41.93 | 57.25 | 15.32 | N | ON | 10 |
| 0.550000 | 52.21 | 56.00 | 3.79 | N | ON | 10 |
| 1.042000 | 46.82 | 56.00 | 9.18 | N | ON | 10 |
| 1.910000 | 44.65 | 56.00 | 11.35 | N | ON | 10 |
| 3.574000 | 42.22 | 56.00 | 13.78 | N | ON | 10 |
| 5.302000 | 56.83 | 60.00 | 3.17 | N | ON | 11 |

Measurement Results: Average

| Frequency (MHz) | Average (dB μ V) | Limit (dB μ V) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|----------------------|--------------------|-------------|------|--------|------------|
| 0.430000 | 34.34 | 47.25 | 12.91 | N | ON | 10 |
| 0.554000 | 42.42 | 46.00 | 3.58 | N | ON | 10 |
| 1.106000 | 36.41 | 46.00 | 9.59 | N | ON | 10 |
| 1.538000 | 34.59 | 46.00 | 11.41 | N | ON | 10 |
| 2.766000 | 27.15 | 46.00 | 18.85 | N | ON | 11 |
| 5.354000 | 40.85 | 50.00 | 9.15 | N | ON | 11 |

END OF REPORT