

RADIO TEST REPORT

Product : Wireless ANC Headphones

Model Name : Loewe leo, 64641*** (The “*” in model name can be 0-9, A-Z or blank and all models are electrically identical)

FCC ID : 2AZD4-LEO

Test Regulation : FCC 47 CFR Part 15 Subpart C (Section 15.247)

Received Date : 2025/6/3

Test Date : 2025/6/4 ~ 2025/6/11

Issued Date : 2025/7/29

Applicant : Loewe Technology GmbH
Industriestrasse 11, 96317 Kronach, Germany

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan

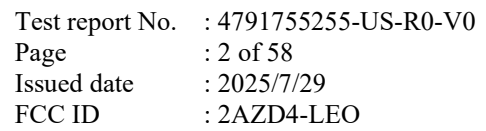


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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1



Original Test Report No.: 4791755255-US-R0-V0

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

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1. Attestation of Test Results

APPLICANT: Loewe Technology GmbH
Industriestrasse 11, 96317 Kronach, Germany

MANUFACTURER: Luxshare Precision Industry Co., Ltd.
2nd floor, A building, Sanyo New Industrial Area, West of
Maoyi, Shajing Street, Ban'an District, Shenzhen City, Guangdong
Province, China

EUT DESCRIPTION: Wireless ANC Headphones

BRAND: LOEWE.

MODEL: Loewe leo, 64641*** (The "***" in model name can be 0-9, A-Z or
blank and all models are electrically identical)

SAMPLE STAGE: Design Verification Test Sample

DATE of TESTED: 2025/6/4 ~ 2025/6/11

| APPLICABLE STANDARDS | |
|---|--------------|
| STANDARD | Test Results |
| FCC 47 CFR PART 15 Subpart C (Section 15.247) | PASS |

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:



Sally Lu
Project Handler

Date : 2025/7/29

Approved and Authorized By:



Eric Lee
Senior Laboratory Engineer

Date : 2025/7/29

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2. Summary of Test Results

| Summary of Test Results | | |
|--------------------------------|--|--------|
| FCC Clause | Test Items | Result |
| 15.247(a)(1) (iii) | Number of Hopping Frequency Used | PASS |
| 15.247(a)(1) (iii) | Dwell Time on Each Channel | PASS |
| 15.247(a)(1) | 1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System | PASS |
| 15.247(b) | Conducted Output Power | PASS |
| 15.247(d) | Antenna Port Emission | PASS |
| 15.205 / 15.209 / 15.247(d) | Radiated Emissions and Band Edge Measurement | PASS |
| 15.207 | AC Power Conducted Emission | PASS |
| 15.203 | Antenna Requirement | PASS |

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3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB558074 D01 Meas Guidance v05r02, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013.

4. Facilities and Accreditation

| | |
|----------------------------------|--|
| Test Location | Underwriters Laboratories Taiwan Co., Ltd. |
| Address | Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan |
| Accreditation Certificate | Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398. |

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5. Measurement Uncertainty

For statement of conformity, Simple acceptance (Section 3.1.4 of IEC Guide 115) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Determining compliance based on the results of the compliance measurement, not considering measurement instrumentation uncertainty.

| Measurement | Frequency | Uncertainty |
|--|----------------|-------------|
| Conducted disturbance at mains terminals ports | 150kHz ~ 30MHz | 3.0 dB |
| RF Conducted | 9 kHz - 40GHz | 2.4 dB |
| Radiated disturbance below 30MHz | 9 kHz - 30 MHz | 1.9 dB |
| Radiated disturbance below 1 GHz | 30MHz ~ 1GHz | 5.6 dB |
| Radiated disturbance above 1 GHz | 1GHz ~ 40GHz | 4.6 dB |

6. Equipment under Test

6.1. Description of EUT

| | |
|-----------------------|--|
| Product | Wireless ANC Headphones |
| Brand Name | LOEWE. |
| Model Name | Loewe leo, 64641*** (The “*” in model name can be 0-9, A-Z or blank and all models are electrically identical) |
| Normal Voltage | 3.8Vdc from Battery 5Vdc from Host |

| | |
|-----------------------------|--------------------------------|
| Operating Frequency | 2402MHz ~ 2480MHz |
| Modulation | GFSK, $\pi/4$ -DQPSK and 8DPSK |
| Transfer Rate | Up to 3 Mbps |
| Maximum Output Power | 9.01 dBm |
| Sample ID | Conducted Test:8538545 |
| | Radiated Test:8538542 |

Note:

1. The models difference table as below:

| Model Name | Difference |
|------------|---|
| Loewe leo | The “*” in model name can be 0-9, A-Z or blank and all models are electrically identical. |
| 64641*** | |

2. Due to market segmentation, the samples are available in blue and white. Regardless of the color, the hardware, circuit design, RF unit, and antenna are the same. Therefore, only white is used as the representative of the test and presented in the report

3. The EUT contains following accessory devices:

| Product | Brand | Model | Description |
|-------------------------|------------|-------------------------|---------------|
| Type-C to C cable | LOEWE. Leo | Type-C to C cable | Length: 1.5 m |
| Type C TO 3.5Plug cable | LOEWE. Leo | Type-C to 3.5Plug cable | Length: 1.5 m |

4. EUT is equipped with a built-in rechargeable battery with the following table:

| Brand | Model | Description |
|-------|--------------|-------------------------|
| VDL | 751235PN3-2P | 3.8Vdc, 330mAh, 2.508Wh |

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer’s or user’s manual, the laboratory shall not be held responsible.

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6.2. Channel List

79 channels are provided for BT-BR/EDR mode:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0 | 2402 | 20 | 2422 | 40 | 2442 | 60 | 2462 |
| 1 | 2403 | 21 | 2423 | 41 | 2443 | 61 | 2463 |
| 2 | 2404 | 22 | 2424 | 42 | 2444 | 62 | 2464 |
| 3 | 2405 | 23 | 2425 | 43 | 2445 | 63 | 2465 |
| 4 | 2406 | 24 | 2426 | 44 | 2446 | 64 | 2466 |
| 5 | 2407 | 25 | 2427 | 45 | 2447 | 65 | 2467 |
| 6 | 2408 | 26 | 2428 | 46 | 2448 | 66 | 2468 |
| 7 | 2409 | 27 | 2429 | 47 | 2449 | 67 | 2469 |
| 8 | 2410 | 28 | 2430 | 48 | 2450 | 68 | 2470 |
| 9 | 2411 | 29 | 2431 | 49 | 2451 | 69 | 2471 |
| 10 | 2412 | 30 | 2432 | 50 | 2452 | 70 | 2472 |
| 11 | 2413 | 31 | 2433 | 51 | 2453 | 71 | 2473 |
| 12 | 2414 | 32 | 2434 | 52 | 2454 | 72 | 2474 |
| 13 | 2415 | 33 | 2435 | 53 | 2455 | 73 | 2475 |
| 14 | 2416 | 34 | 2436 | 54 | 2456 | 74 | 2476 |
| 15 | 2417 | 35 | 2437 | 55 | 2457 | 75 | 2477 |
| 16 | 2418 | 36 | 2438 | 56 | 2458 | 76 | 2478 |
| 17 | 2419 | 37 | 2439 | 57 | 2459 | 77 | 2479 |
| 18 | 2420 | 38 | 2440 | 58 | 2460 | 78 | 2480 |
| 19 | 2421 | 39 | 2441 | 59 | 2461 | - | - |

6.3. Test Condition

| Test Item | Test Site No. | Environmental | Input Power | Test Date | Tested by |
|------------------------------------|---------------|----------------------|------------------|---------------------------|-----------------------------|
| Antenna Port Conducted Measurement | SR4 | 24~26°C/ 65~68%RH | 3.8Vdc & 5Vdc | 2025/06/04~ 2025/06/06 | Jubo Shen/ WaterNil Guan |
| Radiated Spurious Emission | 966-2 | 22~26°C/ 62~68%RH | 3.8Vdc & 5Vdc | 2025/06/04~ 2025/06/11 | Jubo Shen |
| AC power Line Conducted Emission | SR1 | 24°C/ 59%RH | 120Vac/ 60Hz | 2025/06/10 | Jubo Shen |

Sample Calculation:

Antenna Port Conducted Measurement:

- Where relevant, the follow sample calculation is provided:
Result Value (dBm) = Reading Value (dBm) + Attenuator Factor (dB) + Cable Loss (dB).
Example: Result Value (10dBm) = Reading Value (-2dBm) + Attenuator Factor (10dB) + Cable Loss(2dB).
*Test plot only shown the “Result Value”.

Radiated Spurious Emission:

- Where relevant, the follow sample calculation is provided:
Result Value (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).
Example: Result Value (34.5dBuV/m) = Reading Value (40.1dBuV) + Antenna Factor (18.7dB/m) + Cable Loss (4.2dB) - Preamp Factor (28.5dB).

AC power Line Conducted Emission:

- Where relevant, the follow sample calculation is provided:
Result Value (dBuV) = Reading Value (dBuV) + Correction Factor (dB).
Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).
Example: Result Value (53.7dBuV) = Reading Value (35.1dBuV) + Insertion loss(18.1dB) + Cable loss(0.5dB).

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6.4. Description of Available Antennas

| Ant. No. | Transmitter Circuit | Frequency Range | Brand Name | Model Name | Maximum Gain (dBi) | Ant. Type | Connector Type |
|----------|---------------------|-----------------|------------|------------|--------------------|-----------|----------------|
| 1 | Chain0 | 2402 ~ 2480MHz | TOP-LINK | 24001434 | 2.97 | FPC | Spring |

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual, the laboratory shall not be held responsible.

6.5. Test Mode Applicability and Tested Channel Detail

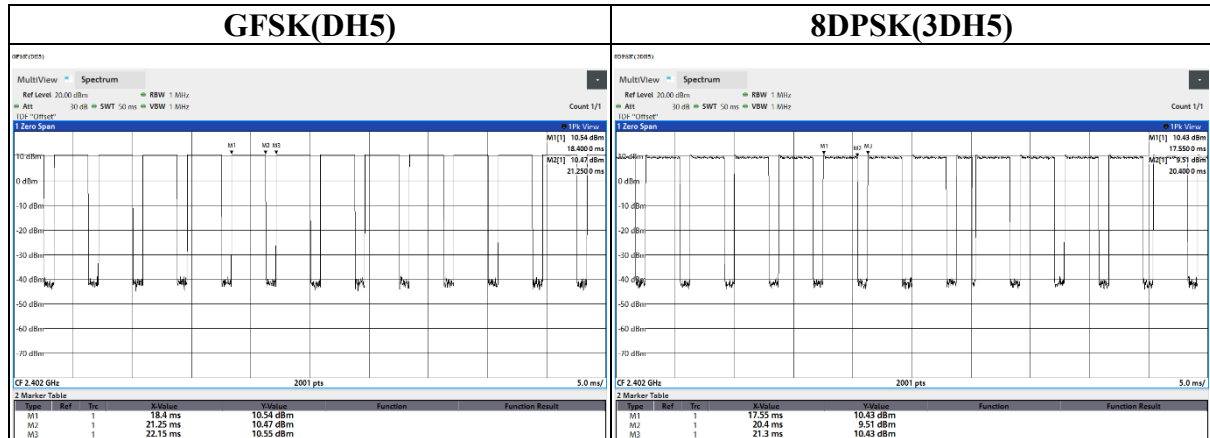
| Test Item | Modulation Type | Available Channel | Test Channel | Packet Type |
|------------------------------------|-----------------|-------------------|--------------|------------------|
| Radiated Emissions (Above 1GHz) | GFSK | 0 to 78 | 0,39,78 | DH5 |
| | 8DPSK | 0 to 78 | 0,39,78 | 3DH5 |
| Radiated Emissions (Below 1GHz) | 8DPSK | 0 to 78 | 39 | 3DH5 |
| AC Power Line Conducted Emission | 8DPSK | 0 to 78 | 39 | 3DH5 |
| Antenna Port Conducted Measurement | GFSK | 0 to 78 | 0,39,78 | DH1*,DH3*,DH5 |
| | 8DPSK | 0 to 78 | 0,39,78 | 3DH1*,3DH3*,3DH5 |

* Only for Dwell Time on Each Channel test

- The fundamental of the EUT was investigated in three orthogonal axes X-Y/Y-Z/X-Z, it was determined that X-Z plane was worst-case. Therefore, all final radiated testing was performed with the EUT in X-Z plane.
- The EUT is power by rechargeable battery. after pre-scan battery capacity at 0%, 50% and 100% , the worst case was found in the 100%. Therefore only the test data of the 100% of battery capacity was recorded in this report.
- In the transmit mode, 8DPSK DH5 channel 39 has the highest RF output power. Therefore, the AC conduction were performed using this worst-case mode.
- In the transmit mode, 8DPSK DH5 channel 39 has the highest RF output power. Therefore, all final tests for the spurious emission (below 1GHz) were performed using this worst-case mode.
- The Packet Type for DH1, DH3, and DH5 have all been pre-tested, the fundamental worst case of the Packet Type was found in the DH5. Therefore, only DH5 Packet Type is recorded in the report. (Except Dwell Time).
- The modulation and bandwidth are similar for $\pi/4$ -DQPSK mode and 8DPSK mode, therefore investigated 8DPSK mode to representative mode in test report.
- For Antenna Port Conducted Measurement, this item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Since the DUT is a Bluetooth device, the AFH mode and non-AFH mode follow the Bluetooth timing protocol, and the same timing level has the same time interval, but the non-AFH mode has worse results, therefore only the test data of this type were recorded in this report.

6.6. Duty cycle

| Mode | On Time (ms) | On+Off Time (ms) | Duty Cycle | Duty Factor (dB) | VBW Set (above 1GHz) |
|-------------|--------------|------------------|------------|------------------|----------------------|
| GFSK(DH5) | 2.850 | 3.750 | 0.7600 | 1.19 | 510Hz |
| 8DPSK(3DH5) | 2.850 | 3.750 | 0.7600 | 1.19 | 510Hz |



7. Test Equipment

| Test Equipment List | | | | | |
|--|--------------------|-------------------------|---------------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Expired date |
| Radiated Spurious Emission | | | | | |
| Spectrum Analyzer | Keysight | N9010A | MY56070818 | 2025/3/12 | 2026/3/11 |
| EMI Test Receiver | Rohde & Schwarz | ESR7 | 101754 | 2024/12/24 | 2025/12/23 |
| Loop Antenna | ETS lindgren | 6502 | 00213440 | 2024/12/11 | 2025/12/10 |
| Trilog-Broadband Antenna with 5dB Attenuator | Schwarzbeck & EMCI | VULB 9168 & N-6-05 | 774 & AT-N0538 | 2024/12/30 | 2025/12/29 |
| Horn Antenna (1-18 GHz) | Schwarzbeck | BBHA 9120 D | 01690 | 2024/11/27 | 2025/11/26 |
| Horn Antenna (18-40 GHz) | Schwarzbeck | BBHA 9170 | 781 | 2024/12/18 | 2025/12/17 |
| Preamplifier (30-1000 MHz) | EMCI | EMC330E | 980405 | 2025/5/12 | 2026/5/11 |
| Preamplifier (1-18 GHz) | EMCI | EMC051835BE | 980406 | 2025/1/13 | 2026/1/12 |
| Preamplifier (18-40GHz) | EMCI | EMC184040SEE | 980426 | 2025/4/7 | 2026/4/6 |
| Cables (9k-18 GHz) | Hanyitek | K1K50-UP0264-K1K50-2500 | 170214-4 & 170425-2 | 2024/11/22 | 2025/11/21 |
| Cables (18-40GHz) | Hanyitek | K1K50-UP0264-K1K50-2500 | 170214-1 & 170214-2 | 2024/11/22 | 2025/11/21 |

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| Test Equipment List | | | | | |
|-------------------------------------|-----------------|------------------|--------------------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Expired date |
| Antenna Port Conducted Measurement | | | | | |
| Signal Analyzer | Rohde & Schwarz | FSVA3044 | 101281 | 2025/3/5 | 2026/3/4 |
| Signal Analyzer | Rohde & Schwarz | FSV40 | 101490 | 2024/7/1 | 2025/6/30 |
| Attenuator | EMCI | EMC-40ATK2W10 | 17002 | 2024/11/13 | 2025/11/12 |
| USB Power Sensor | Anritsu | MA24408A | 12031 | 2024/7/13 | 2025/7/12 |
| Temperature & Humidity Test Chamber | GIANT FORCE | GTH-150-40-CP-AR | MAA1701-010 | 2025/2/25 | 2026/2/24 |
| AC power Line Conducted Emission | | | | | |
| EMI Test Receiver | Rohde & Schwarz | ESR7 | 101753 | 2024/10/1 | 2025/9/30 |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | 102136 | 2025/5/27 | 2026/5/26 |
| Impuls-Begrenzer Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 102219-Qt | 2024/8/29 | 2025/8/28 |
| Cables | TITAN | CFD200 | T0732ACFD 20020A300-2 | 2025/4/21 | 2026/4/20 |

| UL Software | | |
|----------------------------------|------------------------|---------------|
| Description | Name | Version |
| Radiated measurement | e3 | 6.191211 (V6) |
| Conducted measurement | RF-Conducted-FCC 15247 | ver 1.0 |
| AC power Line Conducted Emission | EZ EMC | UL-3A1.2 |

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8. Description of Test Setup

Tx Mode

Support Equipment

| ID | Equipment | Brand Name | Model Name | S/N | Remark |
|----|----------------------|------------|------------|----------|-----------------|
| A | Laptop | Lenovo | T430 | PB-8XTN7 | Provided by Lab |
| B | USB OTG Plug Adapter | UGREEN | US157 | N/A | Provided by Lab |

I/O Cables

| ID | Equipment | Brand Name | Model Name | Length (m) | Remark |
|----|-------------------|------------|-------------------|------------|--------------------|
| 1 | Type-C to C cable | LOEWE. Leo | Type-C to C cable | 1.5 | Supplied by Client |

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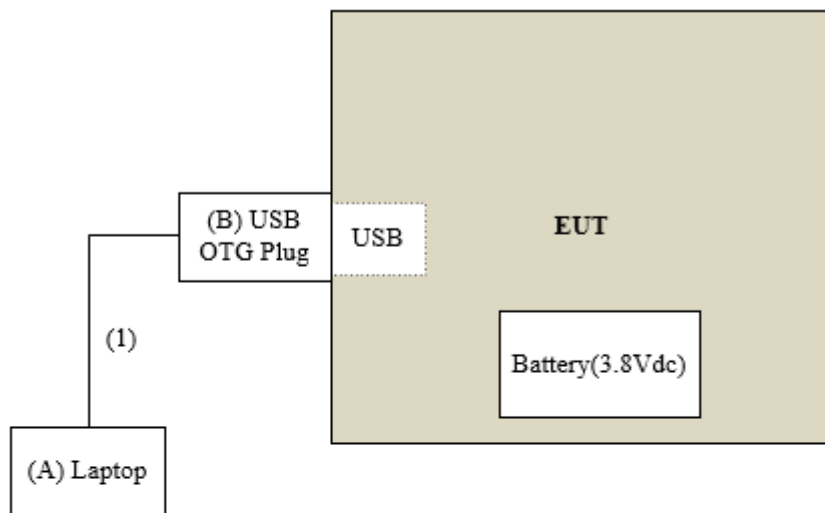
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Test Setup

Controlled using a bespoke application (Airoha_Tool_Kit_v5.4.0.4) on a test Notebook. The application was used to enable a continuous transmission mode and to select the test channels, data rates, modulation schemes and power setting as required.

Setup Diagram for Test

Tx Mode



Under Table

Remote Site

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9. Test Results

9.1. Channel Bandwidth

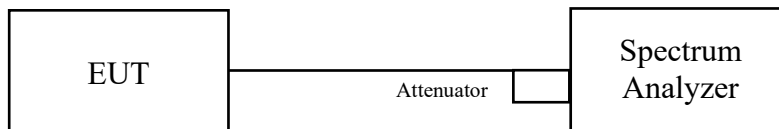
Requirements

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

Test procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

Test Data

| Mode | CH | Freq (MHz) | Chain | 20dB BW (MHz) | Limit (MHz) | Result |
|-------------|----|---------------|---------|------------------|----------------|--------|
| GFSK(DH5) | 0 | 2402 | Chain 0 | 0.958 | N/A | Pass |
| GFSK(DH5) | 39 | 2441 | Chain 0 | 0.957 | N/A | Pass |
| GFSK(DH5) | 78 | 2480 | Chain 0 | 0.956 | N/A | Pass |
| 8DPSK(3DH5) | 0 | 2402 | Chain 0 | 1.277 | N/A | Pass |
| 8DPSK(3DH5) | 39 | 2441 | Chain 0 | 1.270 | N/A | Pass |
| 8DPSK(3DH5) | 78 | 2480 | Chain 0 | 1.271 | N/A | Pass |

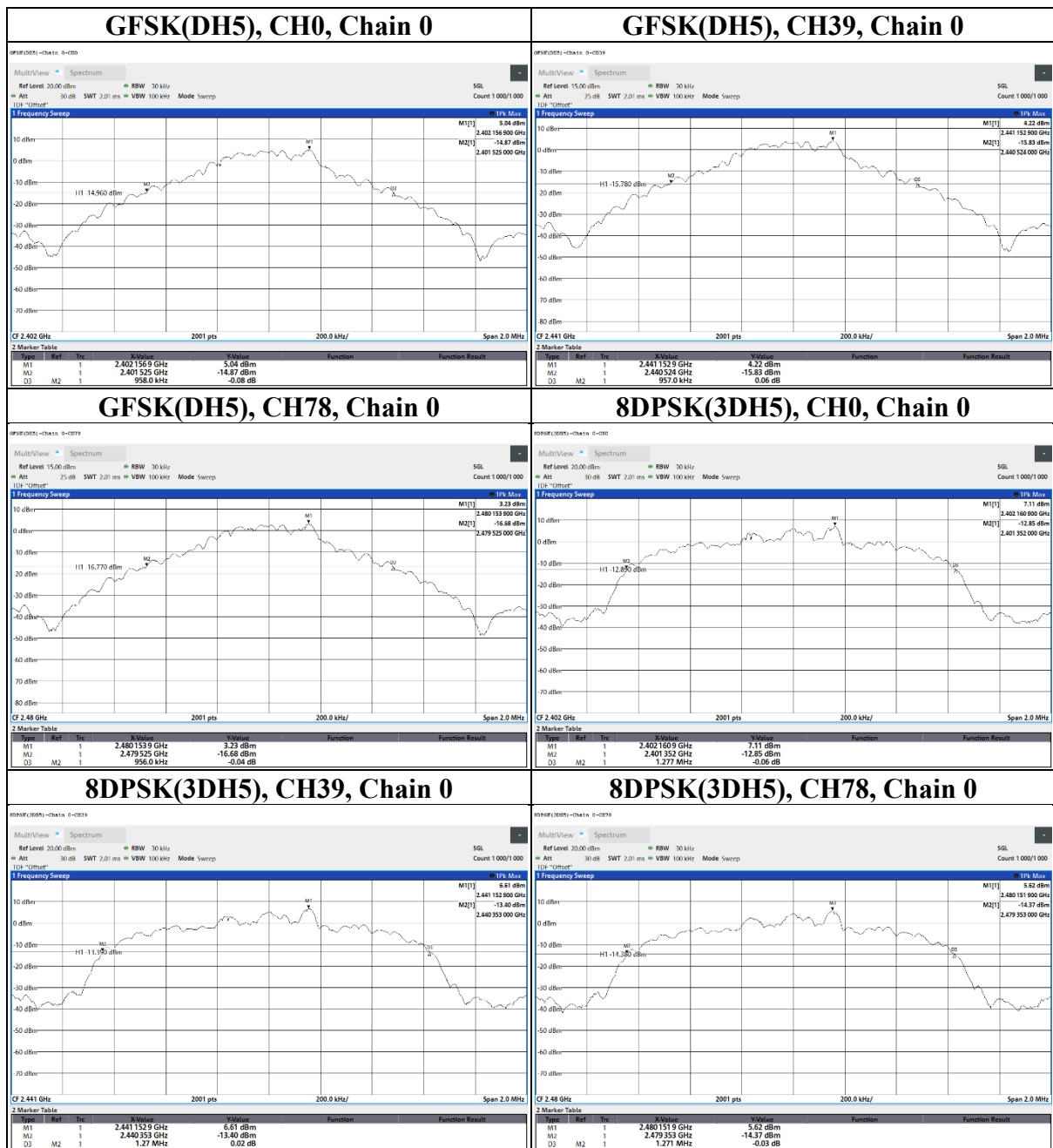
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9.2. Conducted Output Power

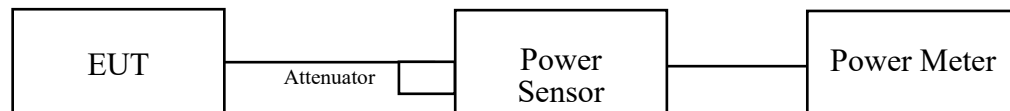
Requirements

The Maximum Output Power Measurement is 125mW.

Test Procedure

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Test Setup



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.

Test Data

| Mode | CH | Freq. (MHz) | Peak Power (dBm) | Total Power (mW) | Total Power (dBm) | AVG Power (dBm) | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Result |
|----------|----|----------------|---------------------|------------------------|-------------------------|-----------------------|------------------------|-------------------------|----------------|--------|
| | | | Chain 0 | | | Chain 0 | | | | |
| BT-GFSK | 0 | 2402 | 6.5 | 4.467 | 6.5 | 6.35 | 4.315 | 6.35 | 20.97 | Pass |
| | 39 | 2441 | 6.76 | 4.742 | 6.76 | 6.61 | 4.581 | 6.61 | 20.97 | Pass |
| | 78 | 2480 | 6.26 | 4.227 | 6.26 | 6.1 | 4.074 | 6.1 | 20.97 | Pass |
| BT-8DPSK | 0 | 2402 | 8.95 | 7.852 | 8.95 | 6.31 | 4.276 | 6.31 | 20.97 | Pass |
| | 39 | 2441 | 9.01 | 7.962 | 9.01 | 6.32 | 4.285 | 6.32 | 20.97 | Pass |
| | 78 | 2480 | 8.74 | 7.482 | 8.74 | 6.23 | 4.198 | 6.23 | 20.97 | Pass |

Note: Average Power is for reference Only.

9.3. Hopping Channel Separation

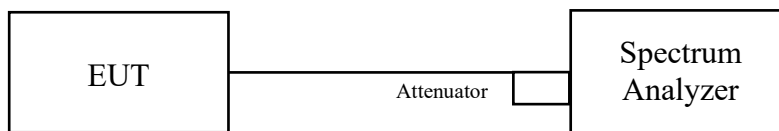
Requirements

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

Test procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

Test Data

| Mode | CH | Freq (MHz) | Chain | Channel Separation (MHz) | > Limit (MHz) |
|-------------|----|---------------|---------|--------------------------------|------------------|
| GFSK(DH5) | 0 | 2402 | Chain 0 | 1 | 0.639 |
| GFSK(DH5) | 39 | 2441 | Chain 0 | 1 | 0.638 |
| GFSK(DH5) | 78 | 2480 | Chain 0 | 0.997 | 0.637 |
| 8DPSK(3DH5) | 0 | 2402 | Chain 0 | 1 | 0.851 |
| 8DPSK(3DH5) | 39 | 2441 | Chain 0 | 0.997 | 0.847 |
| 8DPSK(3DH5) | 78 | 2480 | Chain 0 | 0.997 | 0.847 |

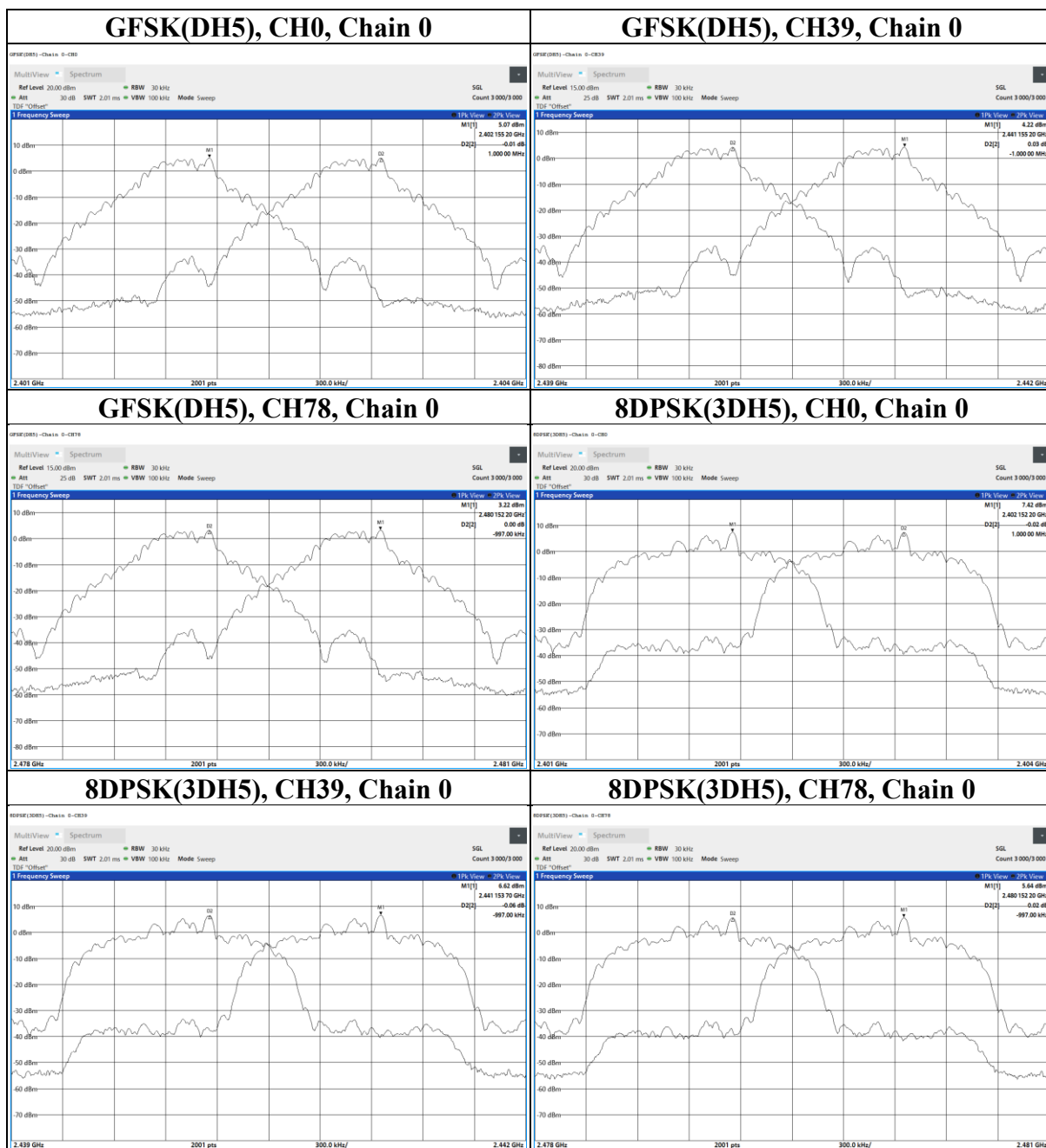
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9.4. Number of Hopping Frequency Used

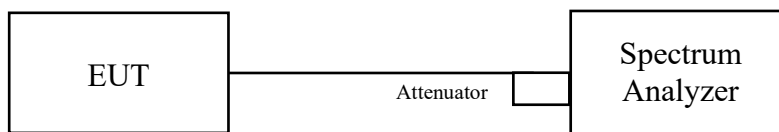
Requirements

At least 15 channels frequencies, and should be equally spaced.

Test procedure

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- Set the SA on View mode and then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

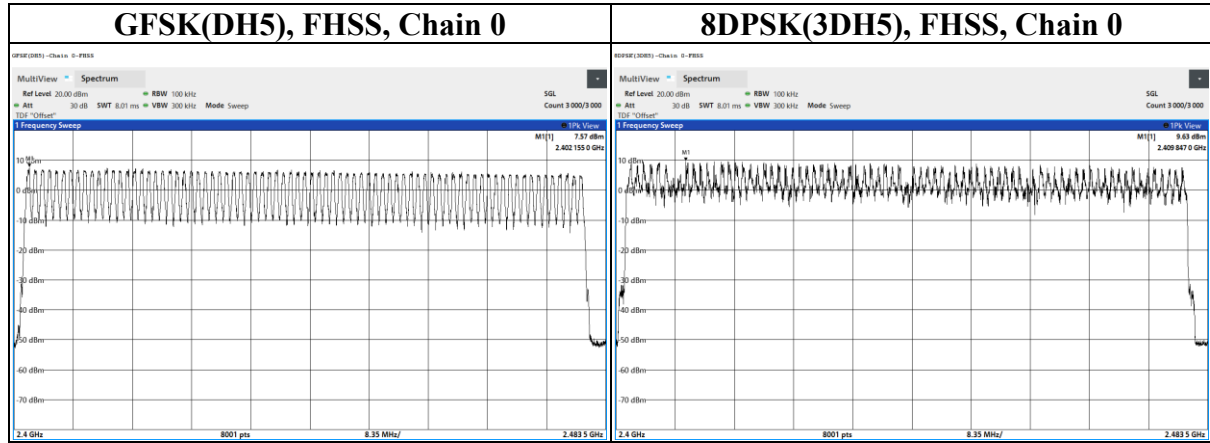
Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

Test Data

There are 79 hopping frequencies in the hopping mode. On the plots, it shows that the hopping frequencies are equally spaced.



9.5. Dwell Time on Each Channel

Requirements

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Test procedure

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.
- Measure the maximum time duration of one single pulse.

A Period Time = (channel number)*0.4

For normal mode:

DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)

DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)

DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

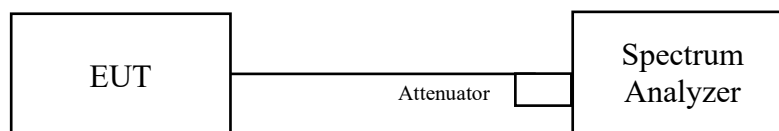
For AFH mode:

DH1 Time Slot: Reading * (800/2)*31.6/(channel number)

DH3 Time Slot: Reading * (800/4)*31.6/(channel number)

DH5 Time Slot: Reading * (800/6)*31.6/(channel number)

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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Test Data

| Mode | Freq (MHz) | Chain | Length of transmission time (ms) | Dwell Time (ms) | Limit (ms) | Result |
|-------------|---------------|---------|---|--------------------|---------------|--------|
| GFSK(DH1) | 2441 | Chain 0 | 0.365 | 116.800 | 400 | PASS |
| GFSK(DH3) | 2441 | Chain 0 | 1.620 | 259.200 | 400 | PASS |
| GFSK(DH5) | 2441 | Chain 0 | 2.875 | 306.667 | 400 | PASS |
| 8DPSK(3DH1) | 2441 | Chain 0 | 0.378 | 120.960 | 400 | PASS |
| 8DPSK(3DH3) | 2441 | Chain 0 | 1.615 | 258.400 | 400 | PASS |
| 8DPSK(3DH5) | 2441 | Chain 0 | 2.875 | 306.667 | 400 | PASS |

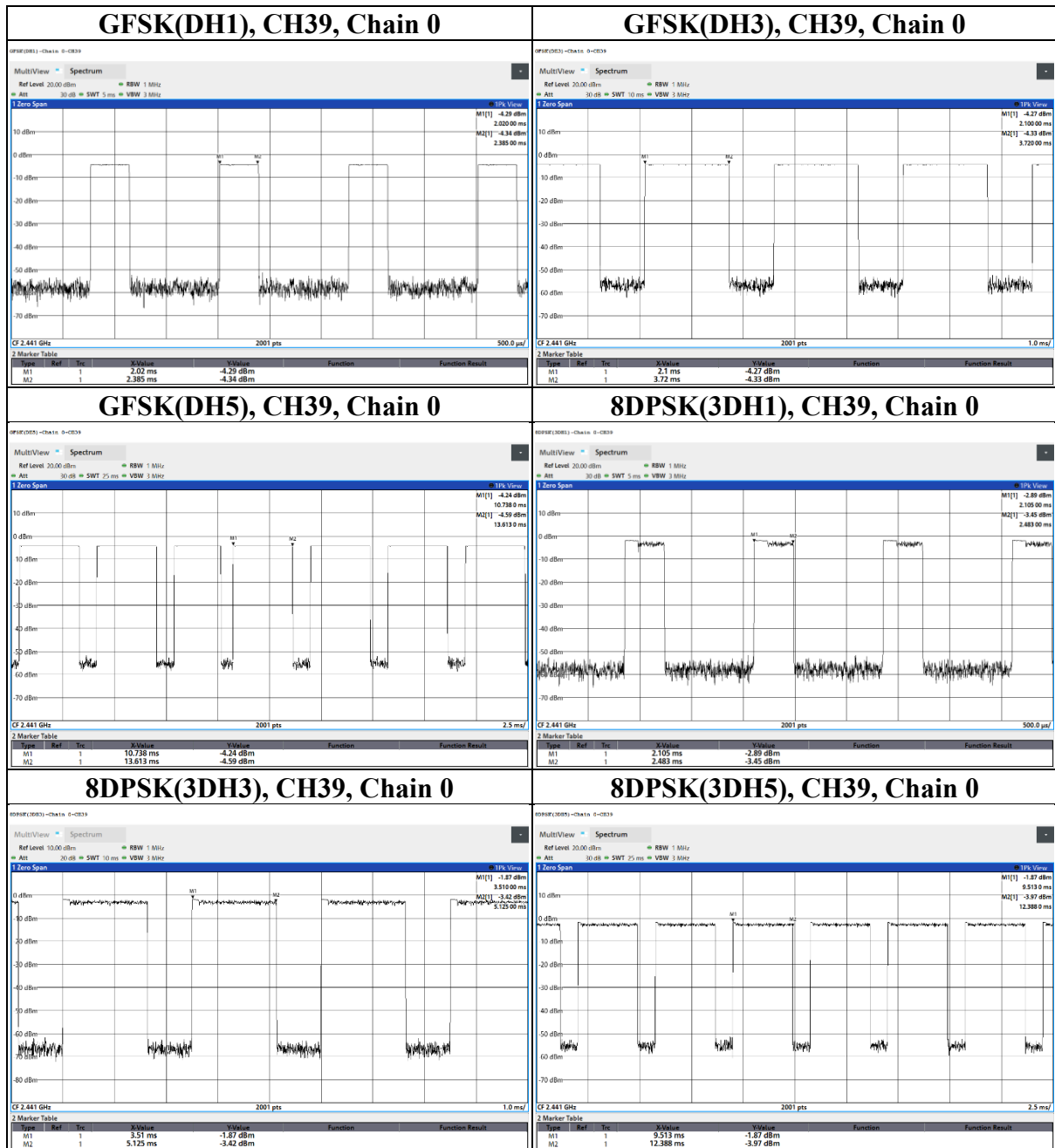
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9.6. Conducted Out of Band Emission

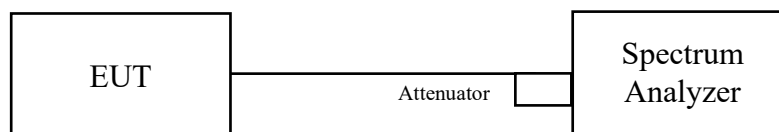
Requirements

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b) (3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209 (a) is not required.

Test procedure

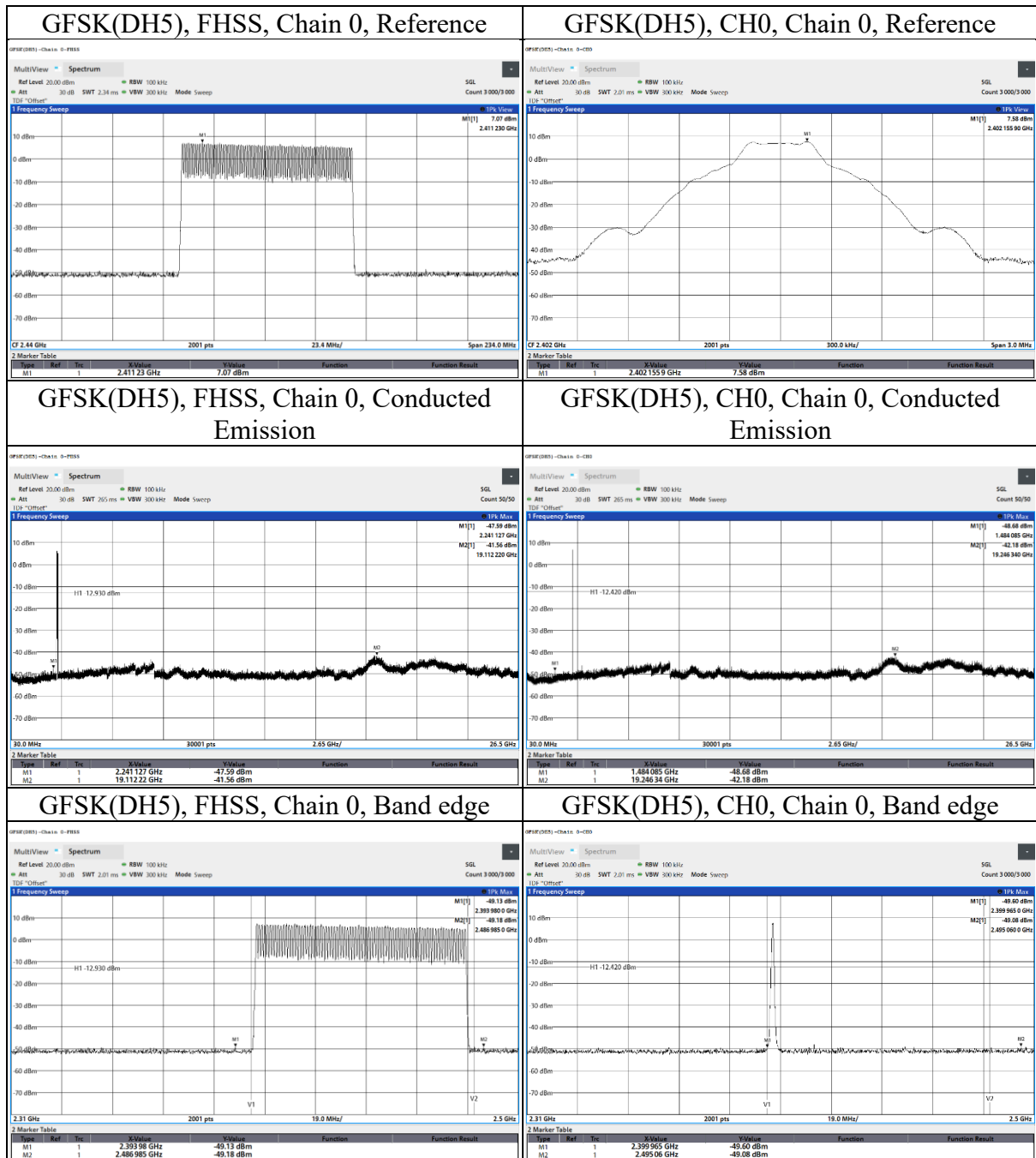
The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

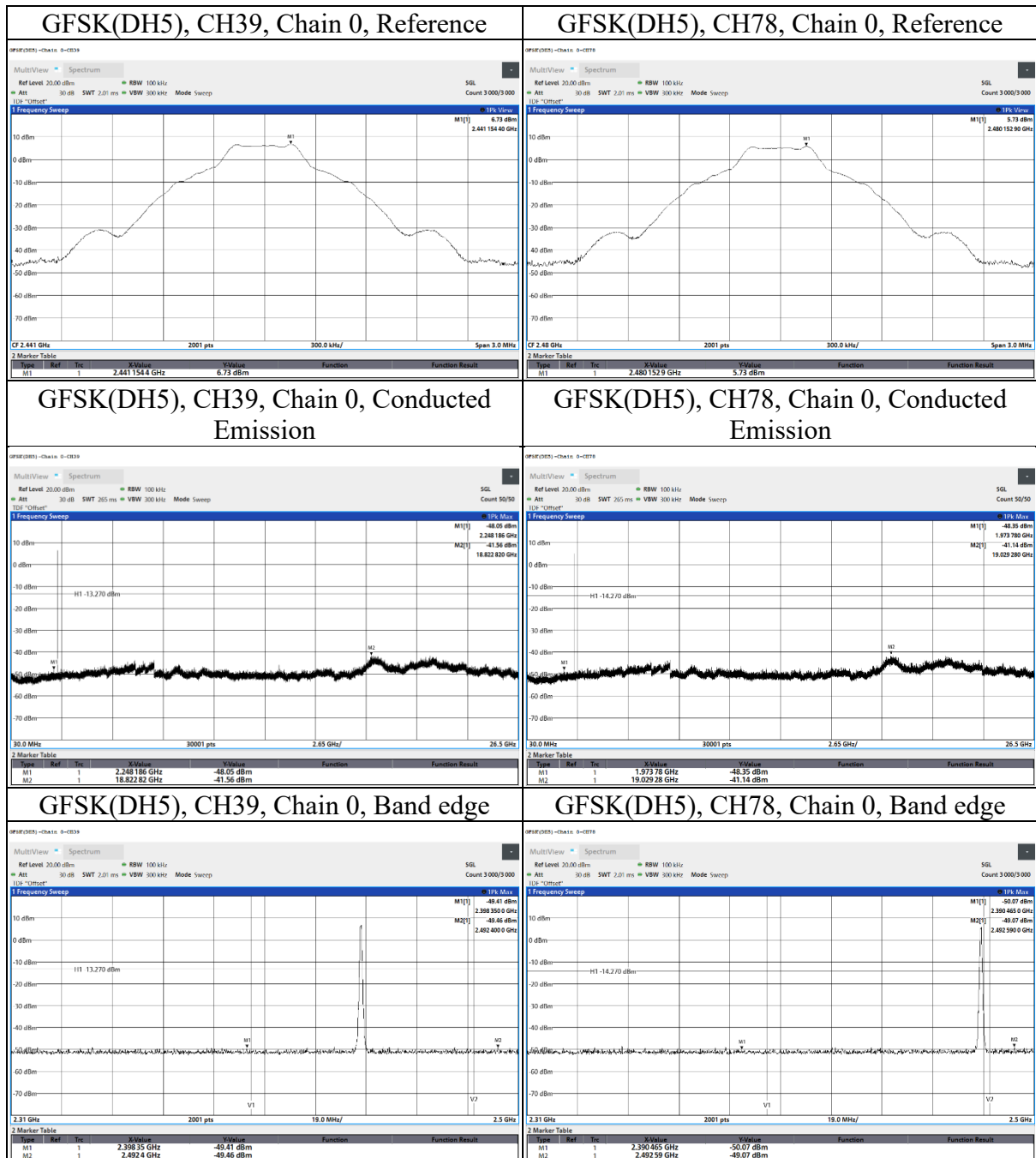
Test Setup

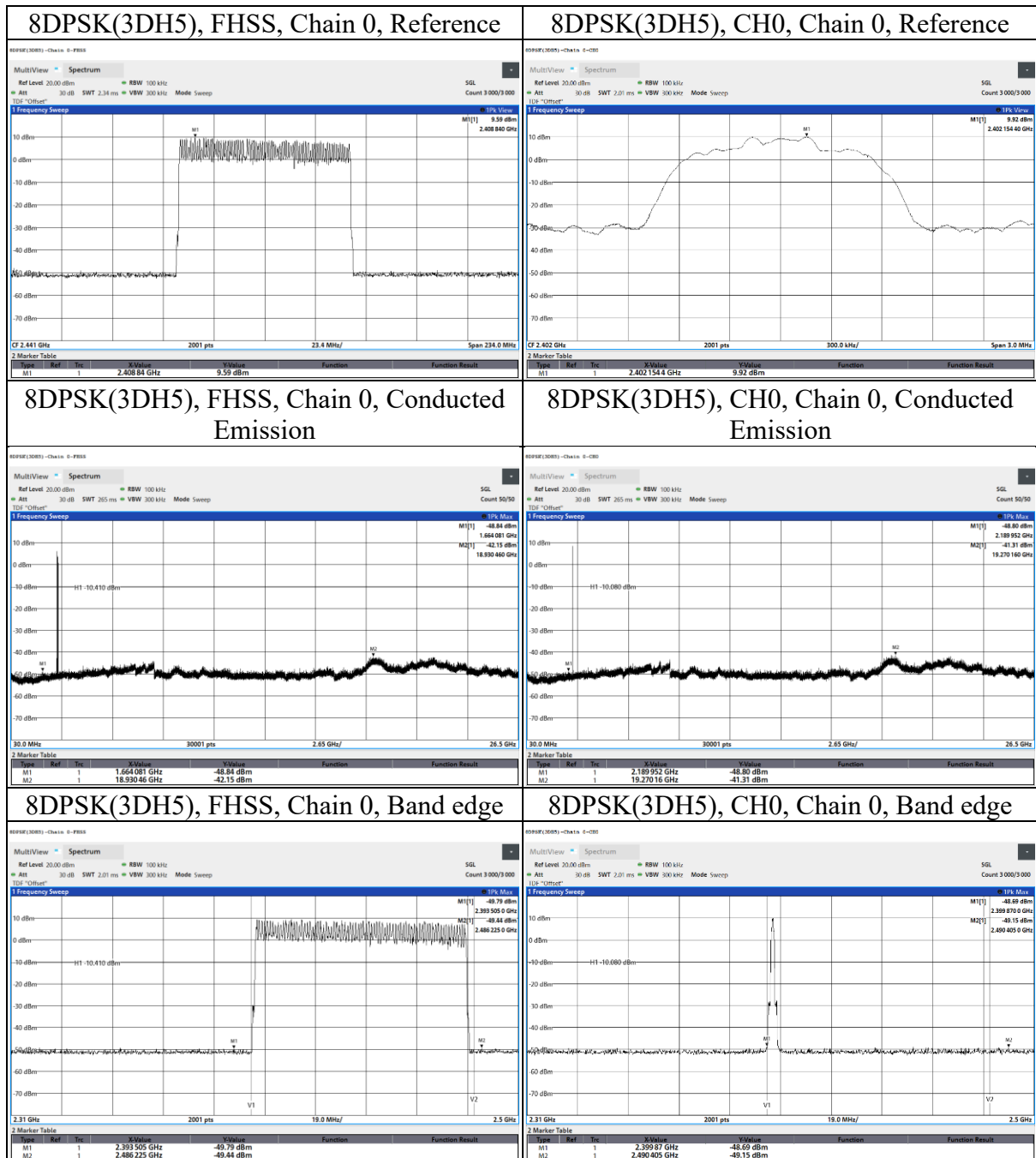


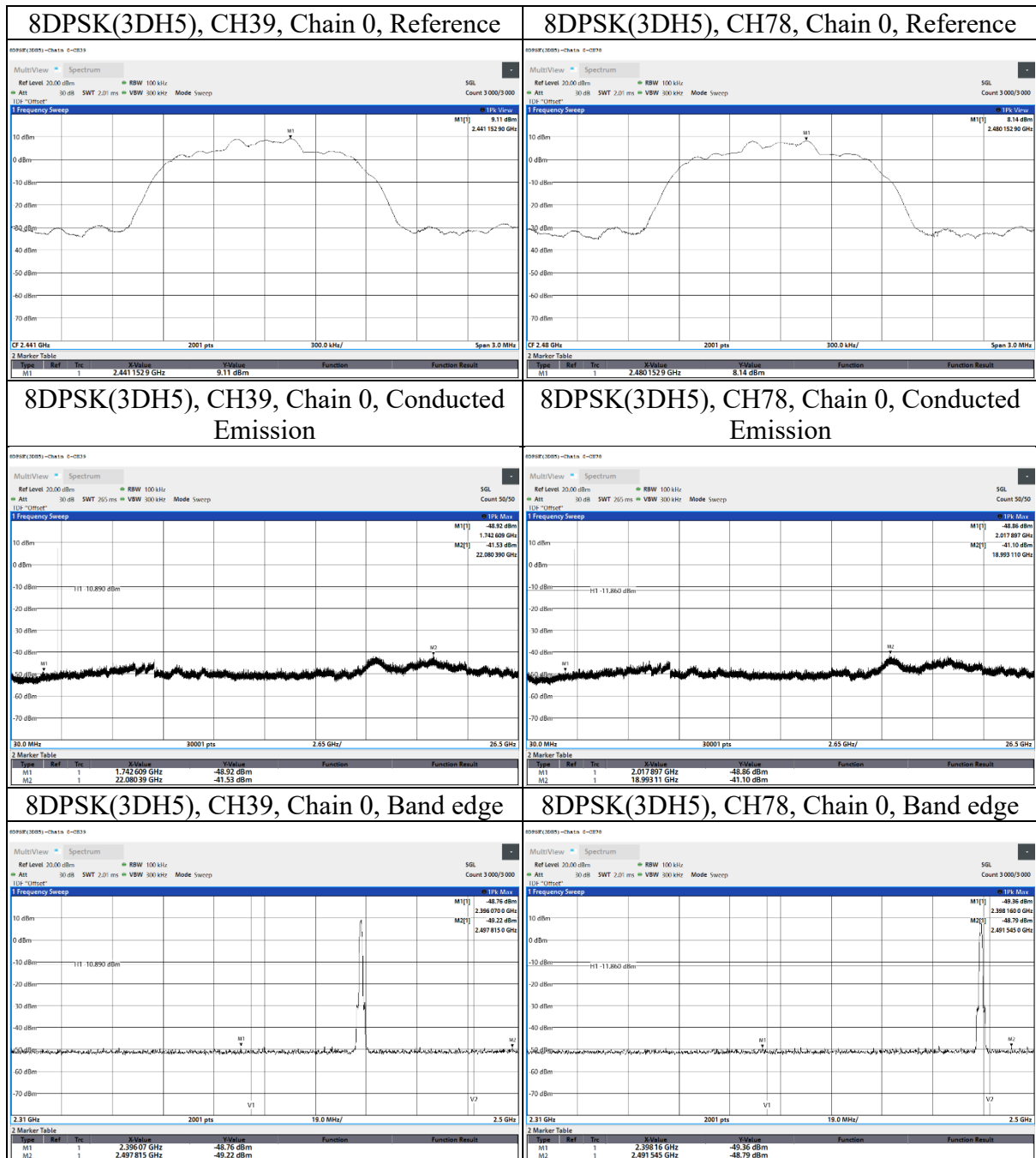
The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

Test Data









9.7. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

| Configuration | Average | |
|---------------|---------|--------------------------------------|
| | RBW | VBW |
| Bluetooth | 1MHz | Refer to section 6.6 for duty cycle. |

4. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
5. Test data of Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
6. Test data of Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
7. Test data of Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).
8. Test data of Notation "@" = Fundamental Frequency
9. Test data of Notation " * " = The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

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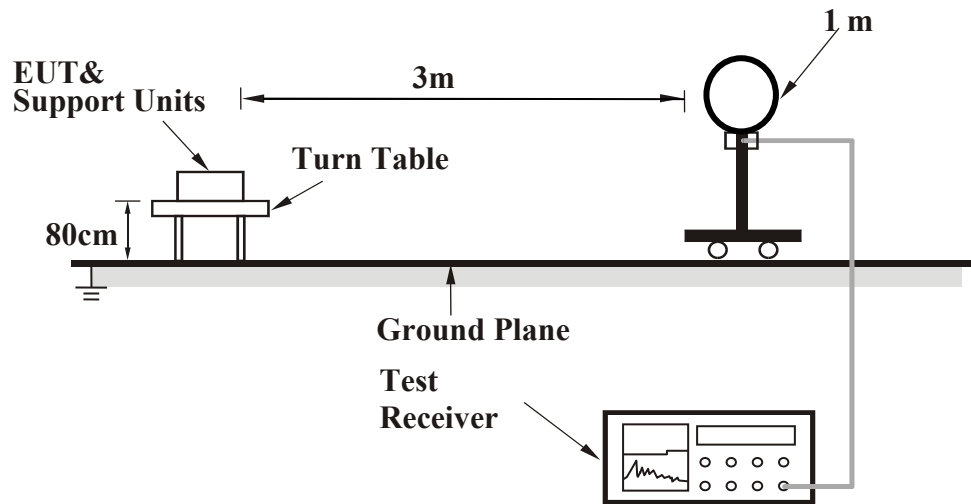
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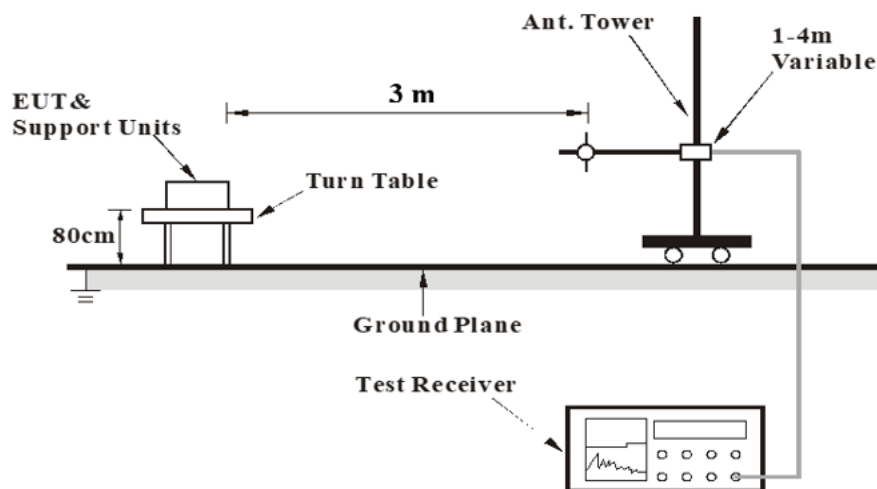
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Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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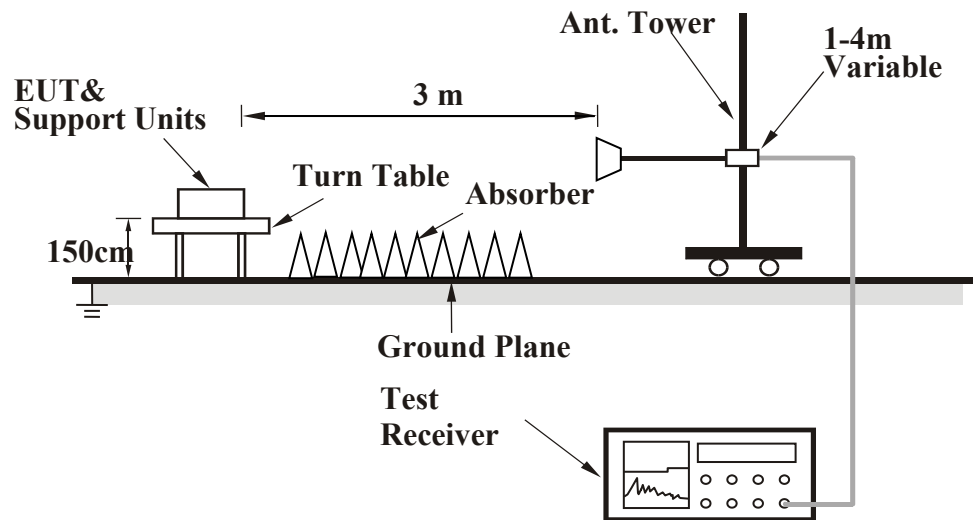
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

Test Data

Above 1 GHz

| | | | |
|------|------|---------|---|
| Mode | GFSK | Channel | 0 |
|------|------|---------|---|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | | 2342.87 | 40.97 | 12.39 | 53.36 | 74 | -20.64 | PK |
| | | 2355.41 | 30.1 | 12.37 | 42.47 | 54 | -11.53 | AVG |
| | @ | 2402 | 91.58 | 12.12 | 103.7 | N/A | N/A | PK |
| | @ | 2402 | 90.8 | 12.12 | 102.92 | N/A | N/A | AVG |
| | * | 4804 | 35.98 | 2.63 | 38.61 | 74 | -35.39 | PK |
| Vertical | | 2352.75 | 40.56 | 12.39 | 52.95 | 74 | -21.05 | PK |
| | | 2365.86 | 30.07 | 12.31 | 42.38 | 54 | -11.62 | AVG |
| | @ | 2402 | 84.38 | 12.12 | 96.5 | N/A | N/A | PK |
| | @ | 2402 | 84.3 | 12.12 | 96.42 | N/A | N/A | AVG |
| | * | 4804 | 36.68 | 2.63 | 39.31 | 74 | -34.69 | PK |

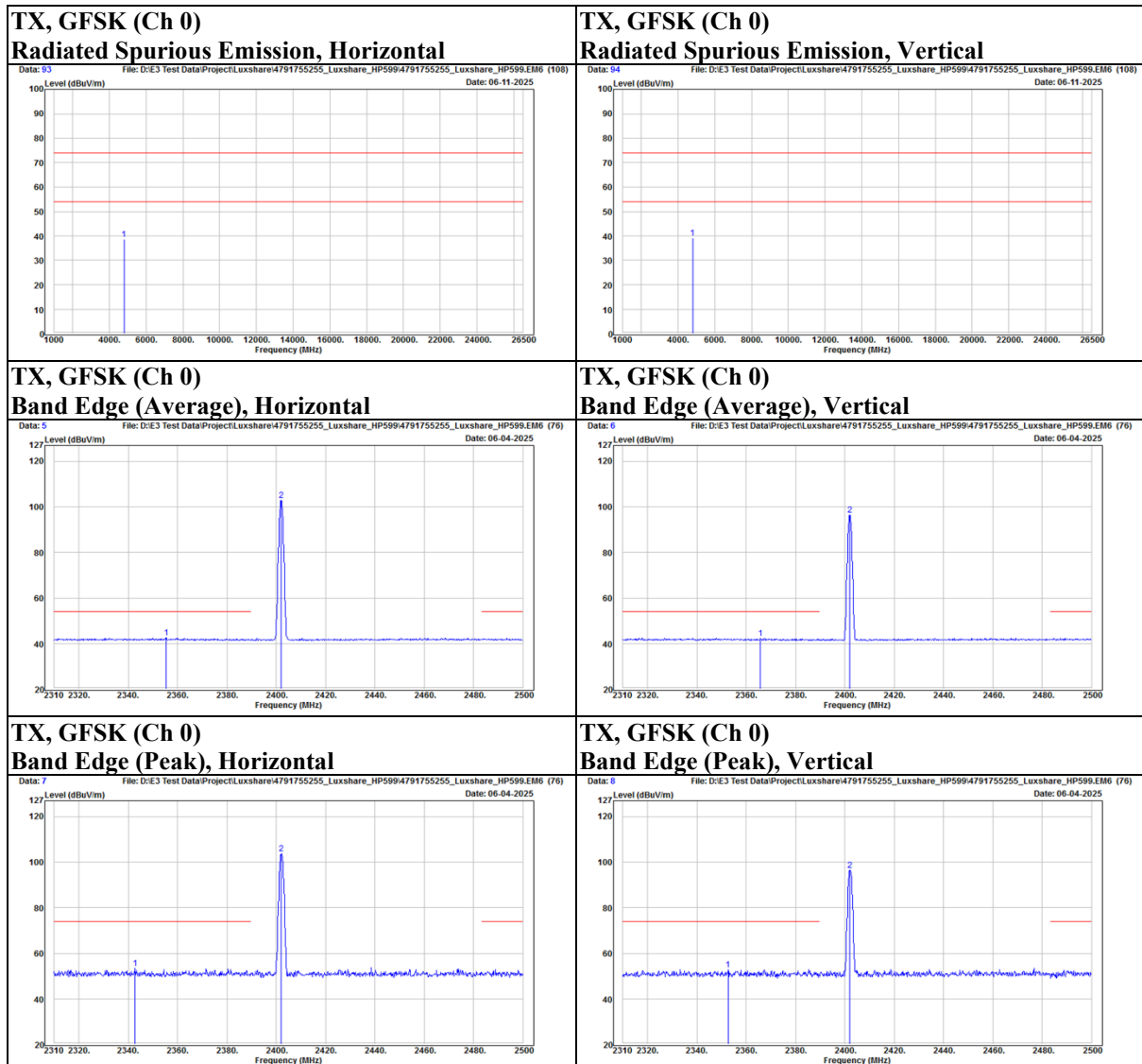
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| | | | |
|------|------|---------|----|
| Mode | GFSK | Channel | 39 |
|------|------|---------|----|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | | 2321.97 | 40.97 | 12.34 | 53.31 | 74 | -20.69 | PK |
| | | 2381.63 | 30.1 | 12.22 | 42.32 | 54 | -11.68 | AVG |
| | @ | 2441 | 92.42 | 12.19 | 104.61 | N/A | N/A | PK |
| | @ | 2441 | 91.97 | 12.19 | 104.16 | N/A | N/A | AVG |
| | | 2494.11 | 40.4 | 12.19 | 52.59 | 74 | -21.41 | PK |
| | | 2497.72 | 29.98 | 12.19 | 42.17 | 54 | -11.83 | AVG |
| | * | 4882 | 35.26 | 2.68 | 37.94 | 74 | -36.06 | PK |
| | | 2330.14 | 30.01 | 12.36 | 42.37 | 54 | -11.63 | AVG |
| Vertical | | 2357.5 | 40.45 | 12.36 | 52.81 | 74 | -21.19 | PK |
| | @ | 2441 | 87.32 | 12.19 | 99.51 | N/A | N/A | PK |
| | @ | 2441 | 87.2 | 12.19 | 99.39 | N/A | N/A | AVG |
| | | 2487.84 | 29.82 | 12.19 | 42.01 | 54 | -11.99 | AVG |
| | | 2492.97 | 40.49 | 12.19 | 52.68 | 74 | -21.32 | PK |
| | * | 4882 | 35.13 | 2.68 | 37.81 | 74 | -36.19 | PK |
| | | | | | | | | |
| | | | | | | | | |

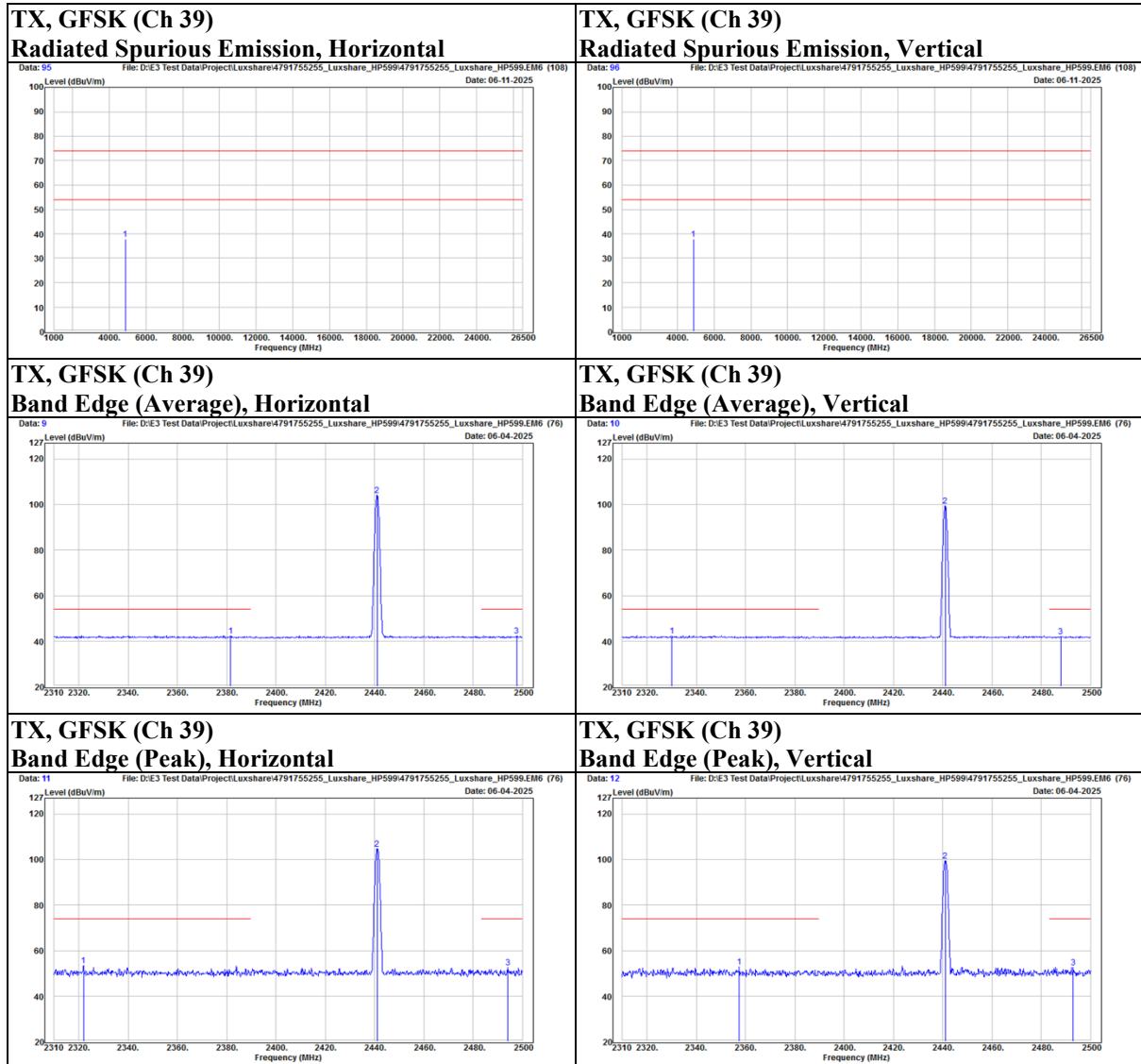
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| | | | |
|------|------|---------|----|
| Mode | GFSK | Channel | 78 |
|------|------|---------|----|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | @ | 2480 | 92.41 | 12.19 | 104.6 | N/A | N/A | PK |
| | @ | 2480 | 92.4 | 12.19 | 104.59 | N/A | N/A | AVG |
| | | 2490.88 | 30.02 | 12.19 | 42.21 | 54 | -11.79 | AVG |
| | | 2496.01 | 41.11 | 12.19 | 53.3 | 74 | -20.7 | PK |
| | * | 4960 | 35.15 | 2.81 | 37.96 | 74 | -36.04 | PK |
| Vertical | @ | 2480 | 84.95 | 12.19 | 97.14 | N/A | N/A | PK |
| | @ | 2480 | 84.64 | 12.19 | 96.83 | N/A | N/A | AVG |
| | | 2488.41 | 39.72 | 12.19 | 51.91 | 74 | -22.09 | PK |
| | | 2498.67 | 30.15 | 12.19 | 42.34 | 54 | -11.66 | AVG |
| | * | 4960 | 34.9 | 2.81 | 37.71 | 74 | -36.29 | PK |

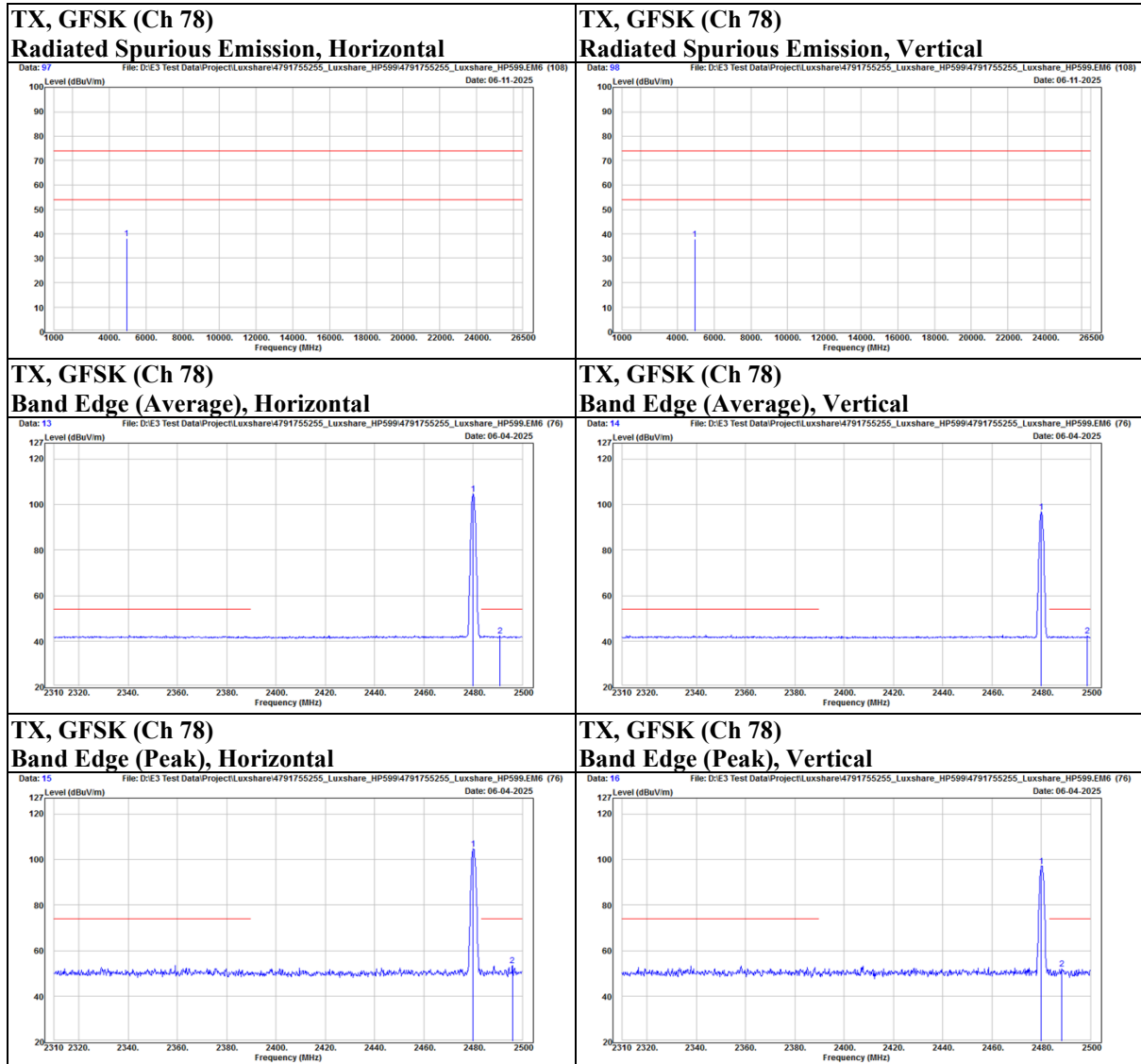
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| | | | |
|------|-------|---------|---|
| Mode | 8DPSK | Channel | 0 |
|------|-------|---------|---|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | | 2310.76 | 29.9 | 12.32 | 42.22 | 54 | -11.78 | AVG |
| | | 2352.56 | 41.24 | 12.39 | 53.63 | 74 | -20.37 | PK |
| | @ | 2402 | 94.05 | 12.12 | 106.17 | N/A | N/A | PK |
| | @ | 2402 | 90.82 | 12.12 | 102.94 | N/A | N/A | AVG |
| | * | 4804 | 34.51 | 2.63 | 37.14 | 74 | -36.86 | PK |
| Vertical | | 2346.48 | 29.97 | 12.39 | 42.36 | 54 | -11.64 | AVG |
| | | 2351.99 | 40.26 | 12.39 | 52.65 | 74 | -21.35 | PK |
| | @ | 2402 | 85.41 | 12.12 | 97.53 | N/A | N/A | PK |
| | @ | 2402 | 83.64 | 12.12 | 95.76 | N/A | N/A | AVG |
| | * | 4804 | 35.18 | 2.63 | 37.81 | 74 | -36.19 | PK |

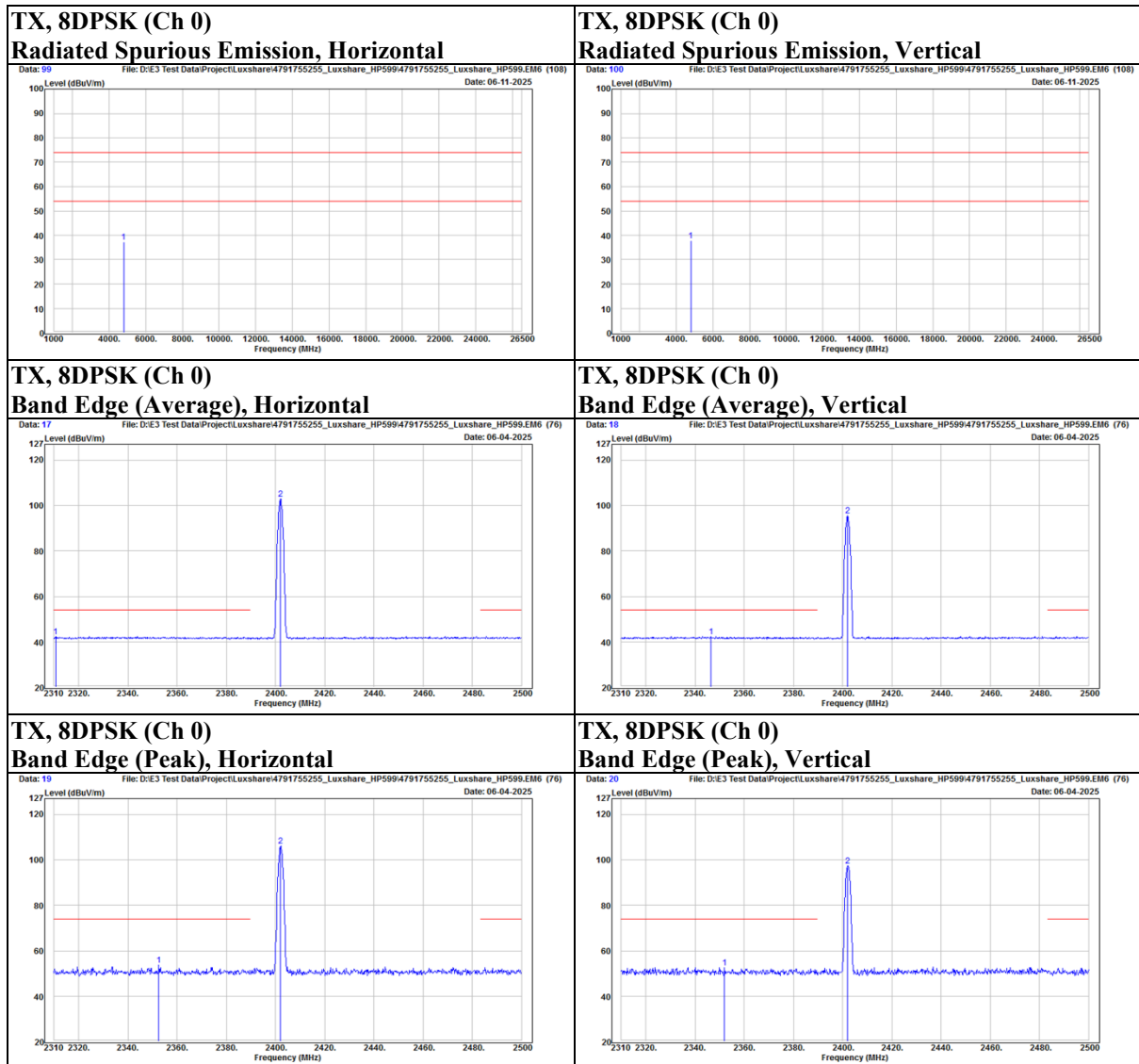
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| | | | |
|------|-------|---------|----|
| Mode | 8DPSK | Channel | 39 |
|------|-------|---------|----|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | | 2358.83 | 29.89 | 12.35 | 42.24 | 54 | -11.76 | AVG |
| | | 2382.58 | 42.18 | 12.22 | 54.4 | 74 | -19.6 | PK |
| | @ | 2441 | 92.98 | 12.19 | 105.17 | N/A | N/A | PK |
| | @ | 2441 | 90.32 | 12.19 | 102.51 | N/A | N/A | AVG |
| | | 2495.06 | 29.95 | 12.19 | 42.14 | 54 | -11.86 | AVG |
| | | 2500 | 40.72 | 12.19 | 52.91 | 74 | -21.09 | PK |
| | * | 4882 | 34.61 | 2.68 | 37.29 | 74 | -36.71 | PK |
| | | | | | | | | |
| Vertical | | 2332.23 | 40.5 | 12.36 | 52.86 | 74 | -21.14 | PK |
| | | 2357.69 | 29.88 | 12.36 | 42.24 | 54 | -11.76 | AVG |
| | @ | 2441 | 87.87 | 12.19 | 100.06 | N/A | N/A | PK |
| | @ | 2441 | 86.12 | 12.19 | 98.31 | N/A | N/A | AVG |
| | | 2485.75 | 29.83 | 12.19 | 42.02 | 54 | -11.98 | AVG |
| | | 2497.34 | 40.95 | 12.19 | 53.14 | 74 | -20.86 | PK |
| | * | 4882 | 34.92 | 2.68 | 37.6 | 74 | -36.4 | PK |
| | | | | | | | | |

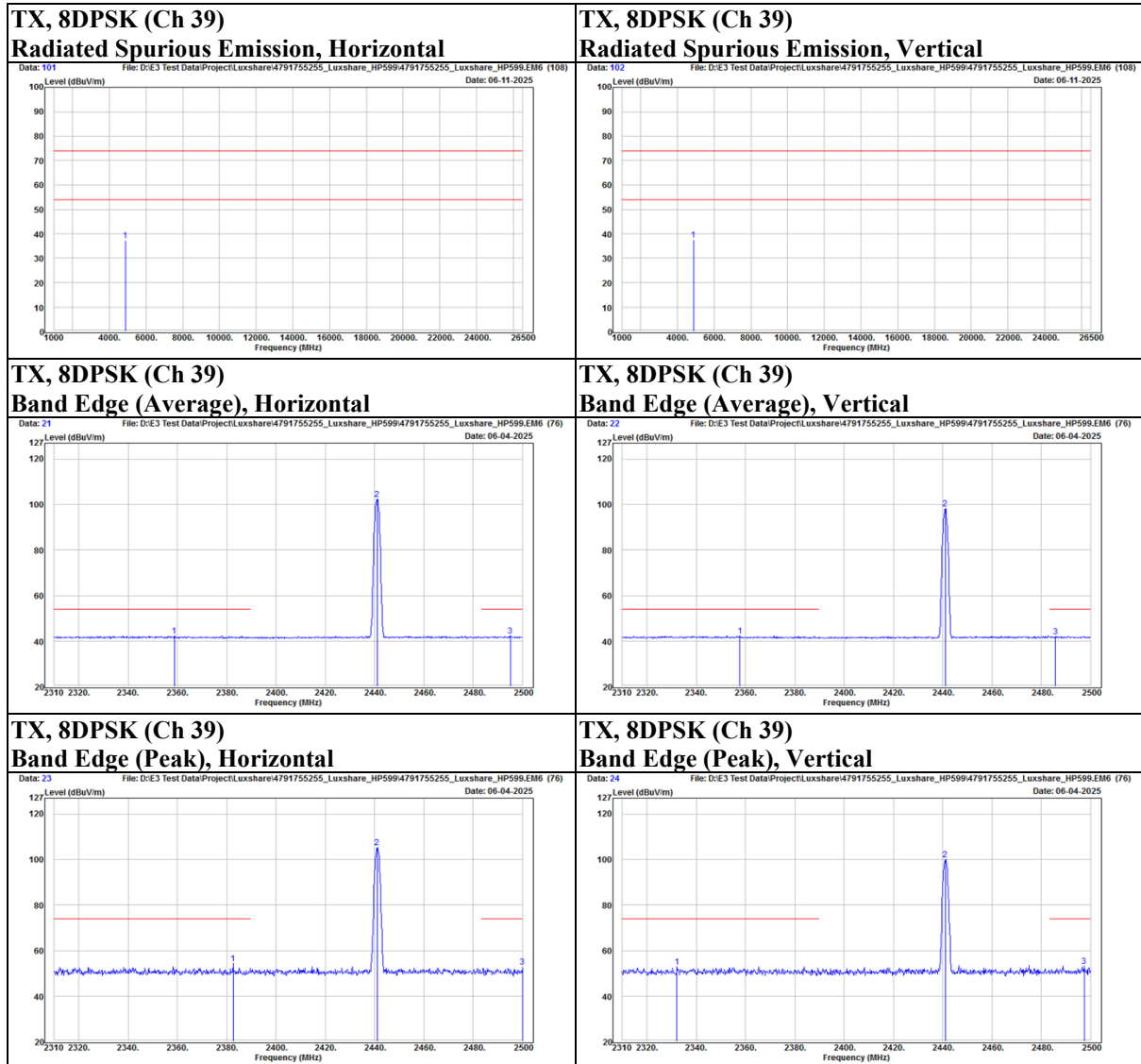
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| | | | |
|------|-------|---------|----|
| Mode | 8DPSK | Channel | 78 |
|------|-------|---------|----|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | @ | 2480 | 94.75 | 12.19 | 106.94 | N/A | N/A | PK |
| | @ | 2480 | 92.78 | 12.19 | 104.97 | N/A | N/A | AVG |
| | | 2492.4 | 29.99 | 12.19 | 42.18 | 54 | -11.82 | AVG |
| | | 2499.81 | 40.22 | 12.19 | 52.41 | 74 | -21.59 | PK |
| | * | 4960 | 36.03 | 2.81 | 38.84 | 74 | -35.16 | PK |
| Vertical | @ | 2480 | 86.38 | 12.19 | 98.57 | N/A | N/A | PK |
| | @ | 2480 | 86.1 | 12.19 | 98.29 | N/A | N/A | AVG |
| | | 2484.99 | 30.01 | 12.19 | 42.2 | 54 | -11.8 | AVG |
| | | 2488.03 | 40.2 | 12.19 | 52.39 | 74 | -21.61 | PK |
| | * | 4960 | 36.06 | 2.81 | 38.87 | 74 | -35.13 | PK |

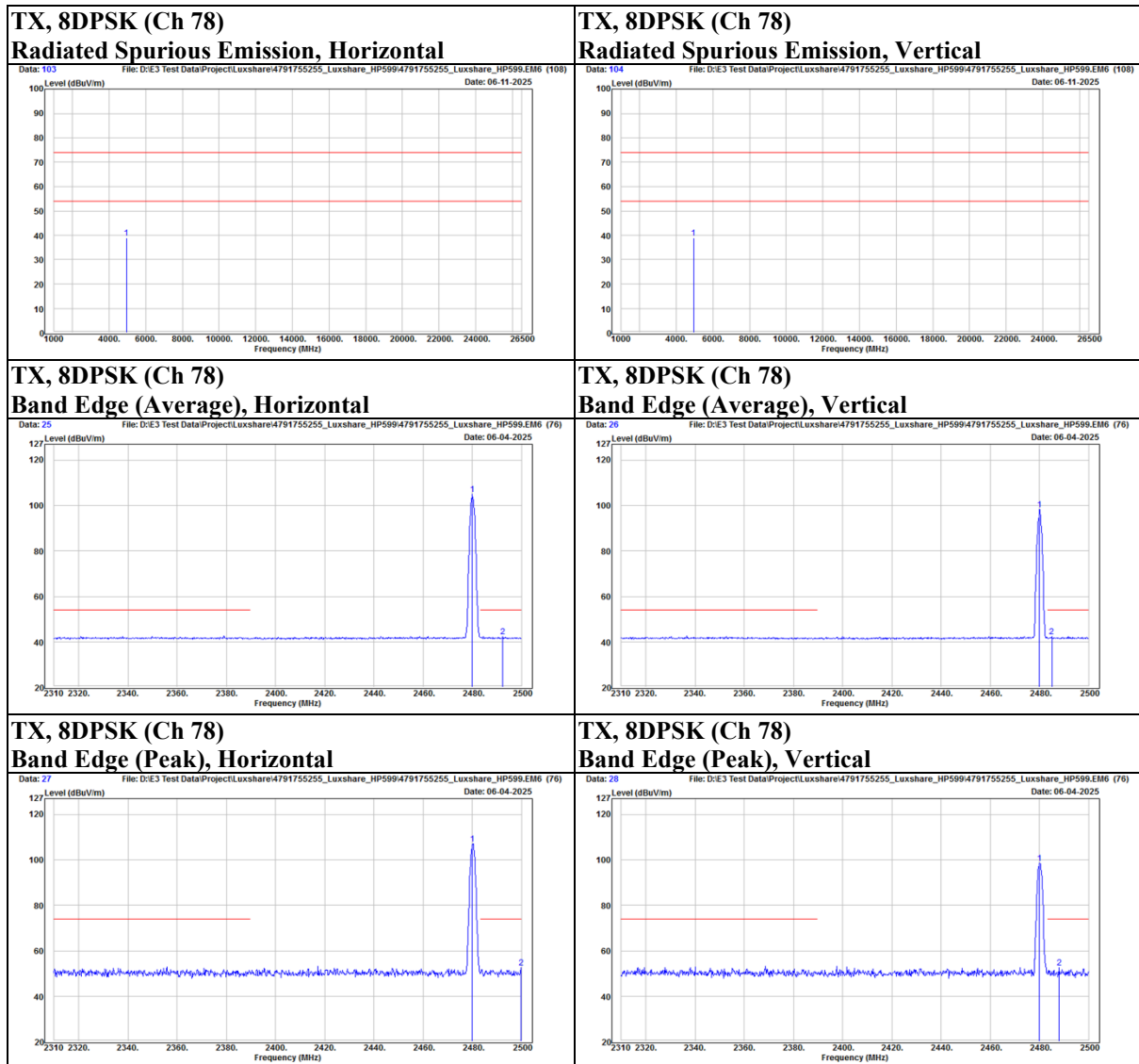
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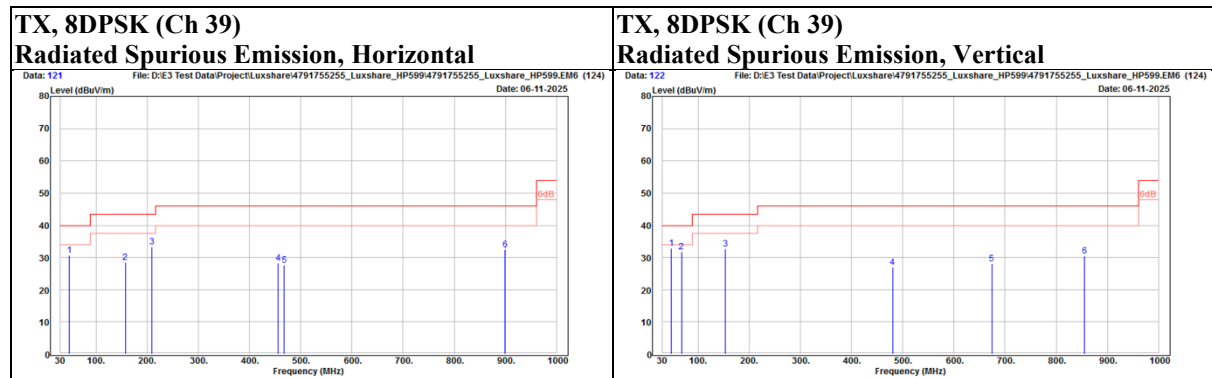
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Below 1 GHz

| | | | |
|------|-------|---------|----|
| Mode | 8DPSK | Channel | 39 |
|------|-------|---------|----|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | | 47.46 | 51.29 | -20.71 | 30.58 | 40 | -9.42 | PK |
| | | 157.07 | 48.63 | -20.05 | 28.58 | 43.5 | -14.92 | PK |
| | | 209.45 | 56.28 | -23.02 | 33.26 | 43.5 | -10.24 | PK |
| | | 455.83 | 42.62 | -14.29 | 28.33 | 46 | -17.67 | PK |
| | | 467.47 | 41.73 | -14.13 | 27.6 | 46 | -18.4 | PK |
| | | 899.12 | 38.24 | -5.87 | 32.37 | 46 | -13.63 | PK |
| Vertical | | 47.46 | 53.62 | -20.71 | 32.91 | 40 | -7.09 | PK |
| | | 67.83 | 54.25 | -22.41 | 31.84 | 40 | -8.16 | PK |
| | | 153.19 | 52.73 | -20.08 | 32.65 | 43.5 | -10.85 | PK |
| | | 480.08 | 40.96 | -13.96 | 27 | 46 | -19 | PK |
| | | 674.08 | 37.66 | -9.56 | 28.1 | 46 | -17.9 | PK |
| | | 855.47 | 36.9 | -6.38 | 30.52 | 46 | -15.48 | PK |



9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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9.8. AC Power Line Conducted Emission

Requirements

| Frequency (MHz) | Conducted limit (dB μ V) | |
|-----------------|------------------------------|---------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Note:

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

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

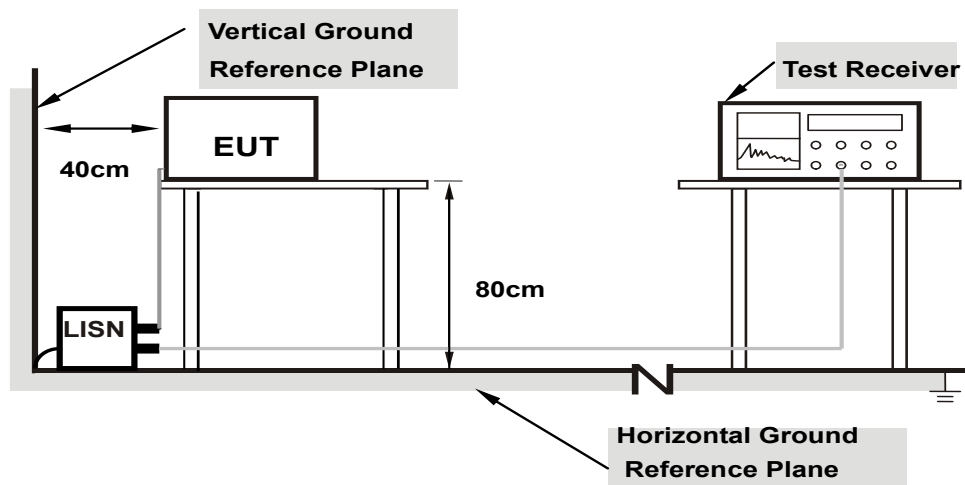
1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.
2. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
3. Test data of Result value (dB μ V) = Reading value (dB μ V) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dB μ V) - Limit value (dB μ V).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

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Test Setup

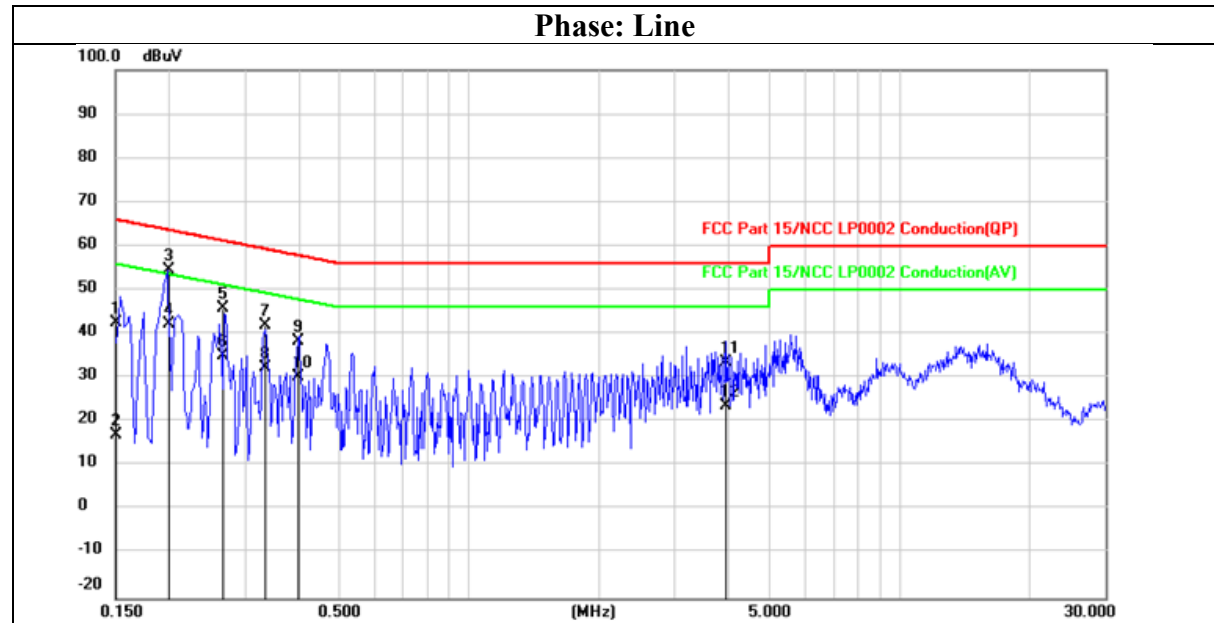


Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

Test Data

| | | | |
|------|-------------|---------|----|
| Mode | 3DH5_TX2441 | Channel | 39 |
|------|-------------|---------|----|



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1 | 0.1502 | 32.53 | 9.96 | 42.49 | 65.99 | -23.50 | QP |
| 2 | 0.1502 | 7.18 | 9.96 | 17.14 | 55.99 | -38.85 | AVG |
| 3 | 0.2000 | 44.59 | 9.96 | 54.55 | 63.61 | -9.06 | QP |
| 4 | 0.2000 | 32.30 | 9.96 | 42.26 | 53.61 | -11.35 | AVG |
| 5 | 0.2660 | 35.93 | 9.97 | 45.90 | 61.24 | -15.34 | QP |
| 6 | 0.2660 | 25.14 | 9.97 | 35.11 | 51.24 | -16.13 | AVG |
| 7 | 0.3332 | 32.01 | 9.97 | 41.98 | 59.37 | -17.39 | QP |
| 8 | 0.3332 | 22.27 | 9.97 | 32.24 | 49.37 | -17.13 | AVG |
| 9 | 0.3988 | 28.40 | 9.97 | 38.37 | 57.88 | -19.51 | QP |
| 10 | 0.3988 | 20.32 | 9.97 | 30.29 | 47.88 | -17.59 | AVG |
| 11 | 3.9289 | 23.48 | 10.09 | 33.57 | 56.00 | -22.43 | QP |
| 12 | 3.9289 | 13.47 | 10.09 | 23.56 | 46.00 | -22.44 | AVG |

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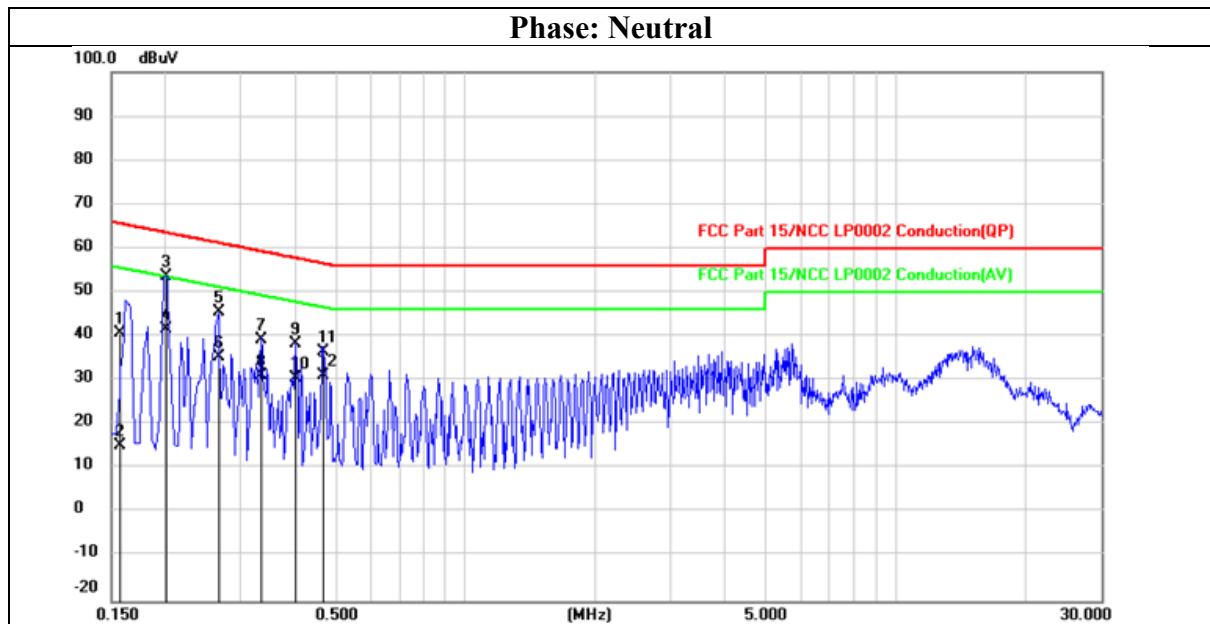
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| | | | |
|------|-------------|---------|----|
| Mode | 3DH5_TX2441 | Channel | 39 |
|------|-------------|---------|----|



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1 | 0.1577 | 30.69 | 9.94 | 40.63 | 65.58 | -24.95 | QP |
| 2 | 0.1577 | 5.20 | 9.94 | 15.14 | 55.58 | -40.44 | AVG |
| 3 | 0.2008 | 43.77 | 9.94 | 53.71 | 63.58 | -9.87 | QP |
| 4 | 0.2008 | 31.71 | 9.94 | 41.65 | 53.58 | -11.93 | AVG |
| 5 | 0.2667 | 35.53 | 9.95 | 45.48 | 61.22 | -15.74 | QP |
| 6 | 0.2667 | 25.26 | 9.95 | 35.21 | 51.22 | -16.01 | AVG |
| 7 | 0.3333 | 29.33 | 9.95 | 39.28 | 59.37 | -20.09 | QP |
| 8 | 0.3333 | 21.11 | 9.95 | 31.06 | 49.37 | -18.31 | AVG |
| 9 | 0.3997 | 28.25 | 9.95 | 38.20 | 57.86 | -19.66 | QP |
| 10 | 0.3997 | 20.54 | 9.95 | 30.49 | 47.86 | -17.37 | AVG |
| 11 | 0.4667 | 26.60 | 9.95 | 36.55 | 56.57 | -20.02 | QP |
| 12 | 0.4667 | 21.08 | 9.95 | 31.03 | 46.57 | -15.54 | AVG |

END OF REPORT

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