



## Test Report - FCC Part 97

Applicant: Acom Ltd.

Signature:

A handwritten signature in black ink, appearing to read "Tim Royer".

Sr. EMC Engineer  
EMC-003838-NE



Name & Title: Tim Royer, EMC Engineer

Date of Signature 2/24/2025

Signature:

A handwritten signature in black ink, appearing to read "Kristoffer Costa".

Name & Title Kristoffer Costa, EMC Technician

Date of Signature 2/24/2025

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

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## 1. Applicant Information

Applicant: Acom Ltd.  
Address: 6 Valeri Petrov Str.  
Sofia-Bozhurishte Industrial Park  
Bozhurishte, 2227, Bulgaria

### 1.1 Part 97 Test Result Summary

The following test procedure and guidance were used for measuring FCC PART 97 (Amateur Radio Service); ANSI/ TIA 603-C:2004 & ANSI C63.4-2004. Full test results are available in this report.

| Applicable Clauses from Part 2 |                                         |                           |
|--------------------------------|-----------------------------------------|---------------------------|
| FCC Clauses                    | Description of the requirements         | Result: (Pass, Fail, N/A) |
| 2.1033 (c)(8)                  | Power at the Final Amplifier            | Reported                  |
| 2.1046 (a)                     | RF Output Power                         | Pass                      |
| 2.1051                         | Spurious emissions at antenna terminals | Pass                      |
| 2.1053                         | Field strength of spurious radiation    | Pass                      |

| Applicable Clauses from Part 90 |                                                 |                           |
|---------------------------------|-------------------------------------------------|---------------------------|
| FCC Clauses                     | Description of the requirements                 | Result: (Pass, Fail, N/A) |
| 97.317(a)(1)                    | Transmitter Power                               | Pass                      |
| 97.317(a)(1)                    | Spurious emissions during TX, Stand-By, and Off | Pass                      |
| 97.317(a)(2)                    | Gain                                            | Pass                      |
| 97.317(a)(3)                    | Gain in 27 MHz band                             | Pass                      |

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

## 2. Location of Testing

### 2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86<sup>th</sup> Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

## 3. Test Sample(s) (EUT/DUT)

The test sample was received: 12/26/2024

Dates of Testing: 1/31/2025 – 2/21/2025

### 3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

| Identification    |            |
|-------------------|------------|
| FCC ID:           | 2AJXZ1400S |
| Brief Description | Amplifier  |
| Model(s) #        | A1400S     |
| Firmware version  | N/A        |
| Software version  | N/A        |
| Serial Number     | 240310     |

| Technical Characteristics    |                      |
|------------------------------|----------------------|
| Frequency Range              | 1.8 MHz- 54 MHz      |
| RF O/P Power (Max.)          | 60.43 dBm/ 1104.08 W |
| Duty Cycle                   | 100%                 |
| Antenna Connector            | UFL                  |
| Voltage Rating (AC or Batt.) | 110-240 VAC          |

| Antenna Characteristics |                 |           |              |
|-------------------------|-----------------|-----------|--------------|
| Antenna                 | Frequency Range | Mode / BW | Antenna Gain |
| 1                       | 1.8 MHz- 54 MHz | n/a       | 15 dBi       |

- Note: Information such as antenna gain, firmware/software numbers are provided by manufacturer and cannot be validated by the test lab.

### 3.2 Configuration of EUT

| Test Modes    |                        |
|---------------|------------------------|
| Range         | Test Frequencies (MHz) |
| 1.8-2         | 1.87                   |
| 3.5-4         | 3.65                   |
| 7-7.3         | 7.19                   |
| 10.1-10.15    | 10.125                 |
| 14-14.35      | 14.17                  |
| 18.086-18.168 | 18.12                  |
| 21-21.45      | 21.22                  |
| 24.89-24.99   | 24.99                  |
| 28-29.7       | 28.5                   |
| 50-54         | 52                     |

#### Operating conditions during Testing:

The device was operated without the provided antenna(s).

No other modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT) were made.

#### Peripherals used during Testing:

No peripherals used.

### 3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

## 4. Test methods & Applicable Regulatory Limits

### 4.1 Test methods/Standards/Guidance:

Test procedures and guidance for measuring Licensed Part 97 Licensed device:

- 1) ANSI/ TIA 603-C:2004
- 2) ANSI C63.4-2003

### 4.2 Applied Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 97 (2017)

## 5. Measurement Uncertainty

| Parameter                                                                                                                                                                   | Uncertainty (dB) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Conducted Emissions                                                                                                                                                         | $\pm 3.14$ dB    |
| Radiated Emissions (9kHz – 30 MHz)                                                                                                                                          | $\pm 3.08$ dB    |
| Radiated Emissions (30 – 200 MHz)                                                                                                                                           | $\pm 2.16$ dB    |
| Radiated Emissions (200 – 1000 MHz)                                                                                                                                         | $\pm 2.15$ dB    |
| Radiated Emissions (1 GHz – 18 GHz)                                                                                                                                         | $\pm 2.14$ dB    |
| Radiated Emissions (18 GHz – 40 GHz)                                                                                                                                        | $\pm 2.31$ dB    |
| <b>Note:</b> The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2. |                  |

## 6. Environmental Conditions

### 6.1 Temperature & Humidity

Measurements performed at the test site did not exceed the following:

| Parameter                                                                                                                       | Measurement |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|
| Temperature                                                                                                                     | 23 C +/- 5% |
| Humidity                                                                                                                        | 55% +/- 5%  |
| Barometric Pressure                                                                                                             | 30.05 in Hg |
| <b>Note:</b> Specific environmental conditions that are applicable to a specific test are available in the test result section. |             |



## 7. List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

### 7.1 List of Test Equipment

| Test Equipment   |                               |                 |             |             |             |            |
|------------------|-------------------------------|-----------------|-------------|-------------|-------------|------------|
| Type             | Device                        | Manufacturer    | Model       | SN#         | Current Cal | Cal Due    |
| Antenna          | Biconical 1057                | Eaton           | 94455-1     | 1057        | 11/19/24    | 12/18/2027 |
| Antenna, NSA     | Log-Periodic 1243             | Eaton           | 96005       | 1243        | 5/4/24      | 12/18/2027 |
| Antenna          | Double-Ridged Horn/ETS Horn 1 | ETS-Lindgren    | 3117        | 00035923    | 5/31/23     | 5/30/2026  |
| CHAMBER          | CHAMBER                       | Panashield      | 3M          | N/A         | 12/29/23    | 12/18/2025 |
| Pre-amp          | Pre-amp                       | RF-LAMBDA       | RLNA00M45GA | NA          | 7/27/22     | 7/26/2025  |
| Receiver         | EMI Test Receiver R&S ESU 40  | Rohde & Schwarz | ESU 40      | 100320      | 9/18/24     | 9/18/2027  |
| Receiver         | EMI Test Receiver R&S ESW44   | Rohde & Schwarz | ESW44       | 103049      | 1/20/25     | 1/20/2028  |
| Signal Generator | Signal Generator HP 8648C     | HP              | 8648C       | 35537A01679 | 8/4/22      | 8/03/2025  |

| Software       |                 |                          |               |
|----------------|-----------------|--------------------------|---------------|
| Software       | Author          | Version                  | Validation on |
| ESU Firmware   | Rohde & Schwarz | 4.43 SP3; BIOS v5.1-24-3 | 2018          |
| RSCCommander   | Rohde & Schwarz | 1.6.4                    | 2014          |
| ScopeExplorer  | LeCroy          | v2.25.0.0                | 2009          |
| Field Strength | Timco           | v4.10.7.0                | 2016          |

## 8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB $\mu$ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB $\mu$ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB $\mu$ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

### Example:

|            |               |              |          |                          |
|------------|---------------|--------------|----------|--------------------------|
| Freq (MHz) | Meter Reading | + ACF        | +CL      | = FS                     |
| 33         | 20 dB $\mu$ V | + 10.36 dB/m | +0.40 dB | =30.36 dB $\mu$ V/m @ 3m |

$EIRP = P_{cond} \text{ (dBm)} + dBi$

## 8.1 Power at the Final Amplifier

Limits from FCC Parts 2.1033(c)(8), and 97.313; and test procedure from ANSI/ TIA 603-C:2004 & ANSI C63.4-2003

**TEST PROCEDURES:** Radiation Interference: The test procedure used was ANSI/TIA 603-C: 2004 using a Agilent spectrum analyzer with a preselector. In the frequency range 10 kHz to 30 MHz the RBW was 10 kHz and from 30-1000 MHz the RBW of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

**Formula of Conversion Factors:** The field strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the preselector was accounted for in the spectrum analyzer meter reading.

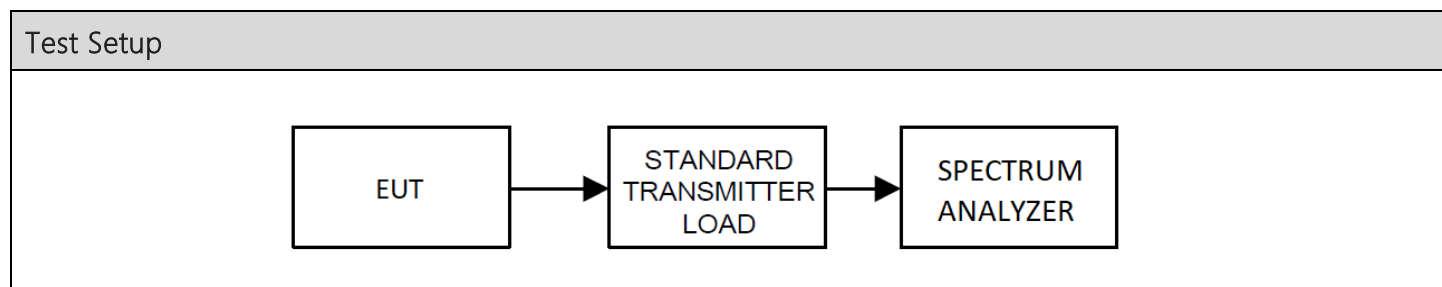
**Example:** Freq (MHz) Meter Reading + ACF + CL = FS 33 20 dBuV + 10.36 dB/m +0.4 dB = 30.76 dBuV/m @ 3m

| Test Results              |                 |                                  |
|---------------------------|-----------------|----------------------------------|
| EUT Operating Voltage (V) | EUT Current (A) | Power at the Final Amplifier (W) |
| 120                       | 10              | 1200                             |

## 8.2 RF Output Power

Limits from FCC Parts 2.1046(a), and 97.313; and test procedure from ANSI/ TIA 603-C:2004 & ANSI C63.4-2003

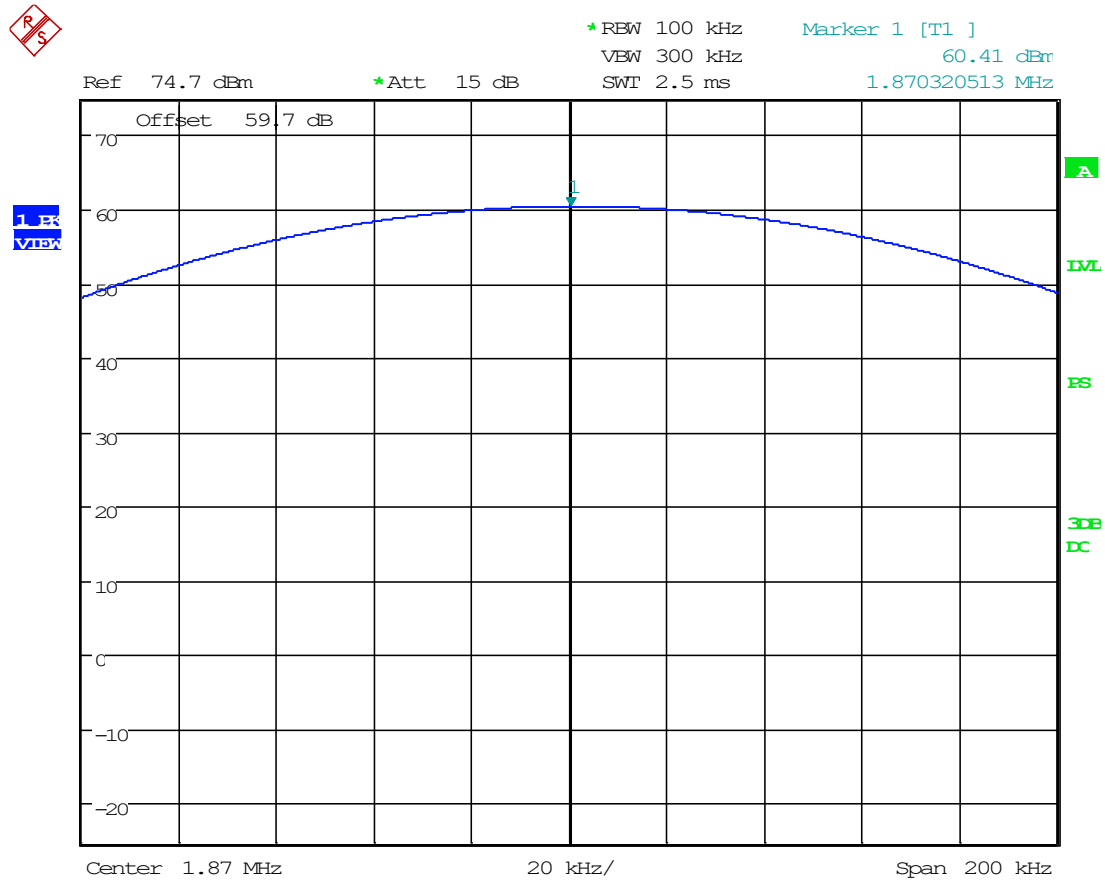
**Test Procedure:** RF power is measured by connecting a 50-ohm, resistive wattmeter to the RF output connector with a nominal input voltage of 120 AC Volts.



| Test Results          |                    |                  |
|-----------------------|--------------------|------------------|
| Tuned Frequency (MHz) | Power Output (dBm) | Power Output (W) |
| 1.87                  | 60.41              | 1099.01          |
| 3.65                  | 60.32              | 1076.47          |
| 7.19                  | 60.39              | 1093.96          |
| 10.125                | 60.33              | 1078.95          |
| 14.17                 | 60.32              | 1076.47          |
| 18.12                 | 60.43              | 1104.08          |
| 21.22                 | 60.18              | 1042.32          |
| 24.99                 | 60.11              | 1025.65          |
| 28.5                  | 60.24              | 1056.82          |
| 52                    | 60.00              | 1000.00          |

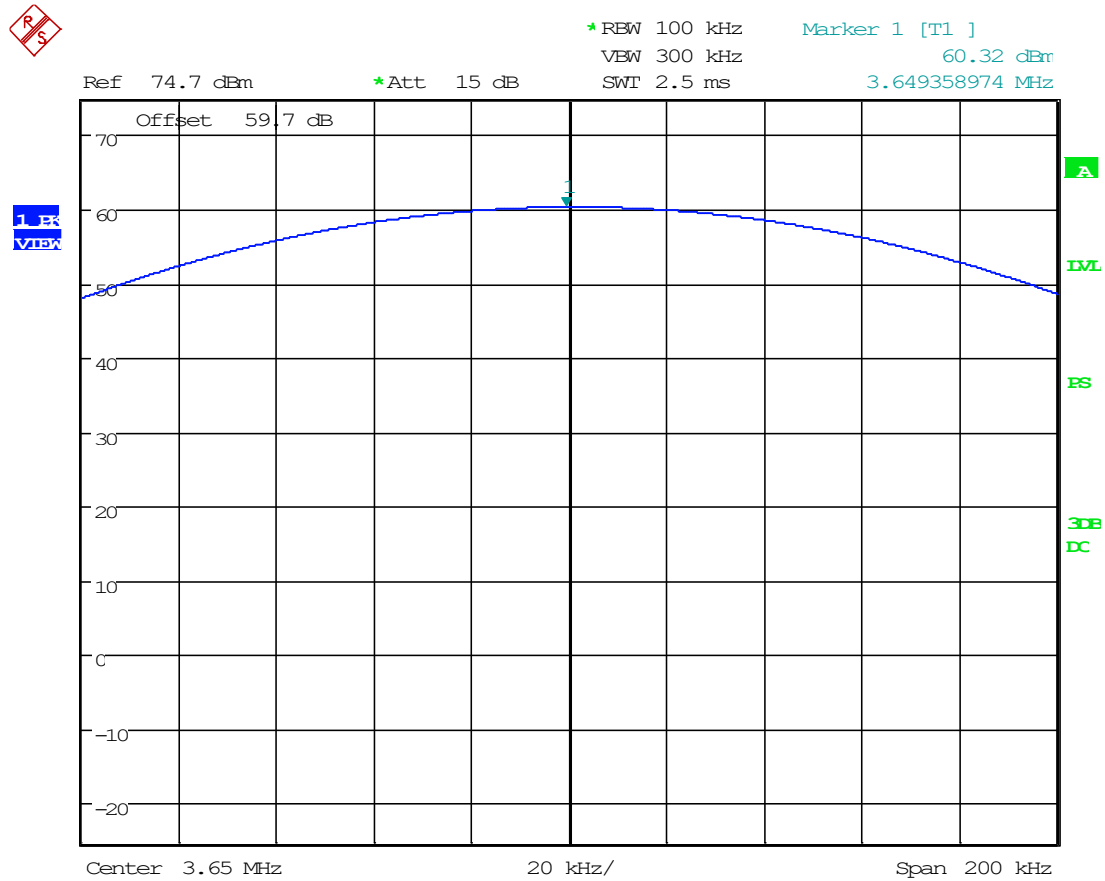
| Test Results          |                   |                  |           |
|-----------------------|-------------------|------------------|-----------|
| Tuned Frequency (MHz) | Power Input (dBm) | PEP Output (dBm) | Gain (dB) |
| 1.87                  | 42.94             | 60.41            | 4.71      |
| 3.65                  | 42.5              | 60.32            | 5.05      |
| 7.19                  | 42.52             | 60.39            | 5.07      |
| 10.125                | 40.09             | 60.33            | 7.52      |
| 14.17                 | 40.05             | 60.32            | 7.58      |
| 18.12                 | 40.19             | 60.43            | 7.45      |
| 21.22                 | 40.67             | 60.18            | 6.97      |
| 24.99                 | 40.27             | 60.11            | 7.09      |
| 28.5                  | 41.05             | 60.24            | 6.44      |
| 52                    | 41.78             | 60.00            | 5.56      |

## 8.2.1 RF Power Output Plot, 1.87 MHz



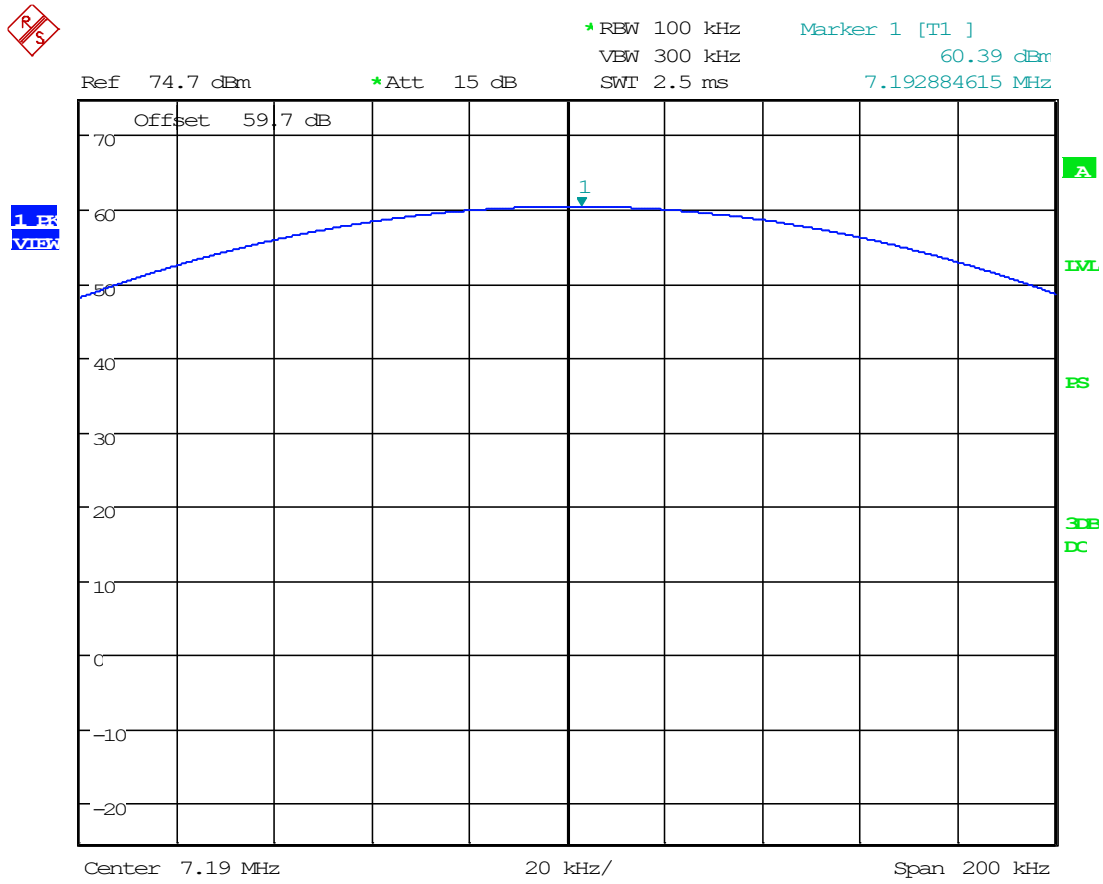
Date: 17.MAR.2025 13:01:52

## 8.2.2 RF Power Output Plot, 3.65 MHz



Date: 17.MAR.2025 13:04:29

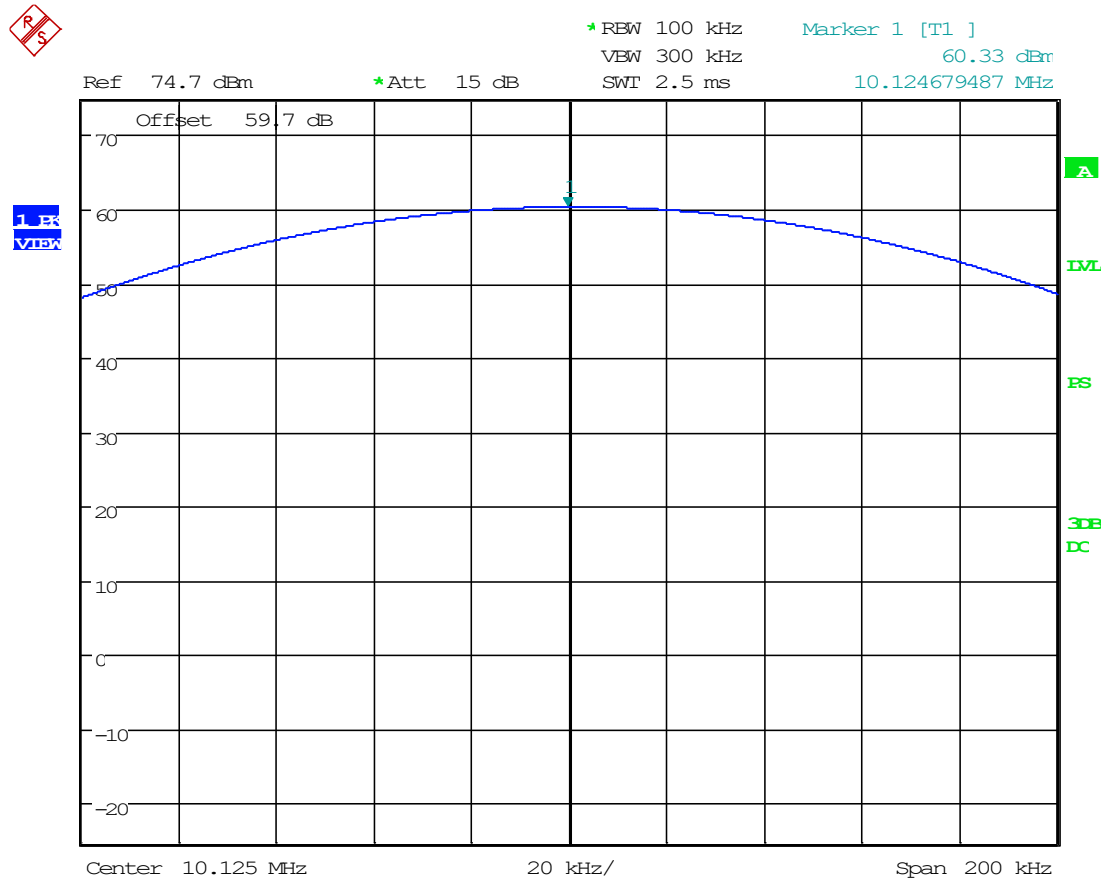
### 8.2.3 RF Power Output Plot, 7.19 MHz



Date: 17.MAR.2025 13:05:35

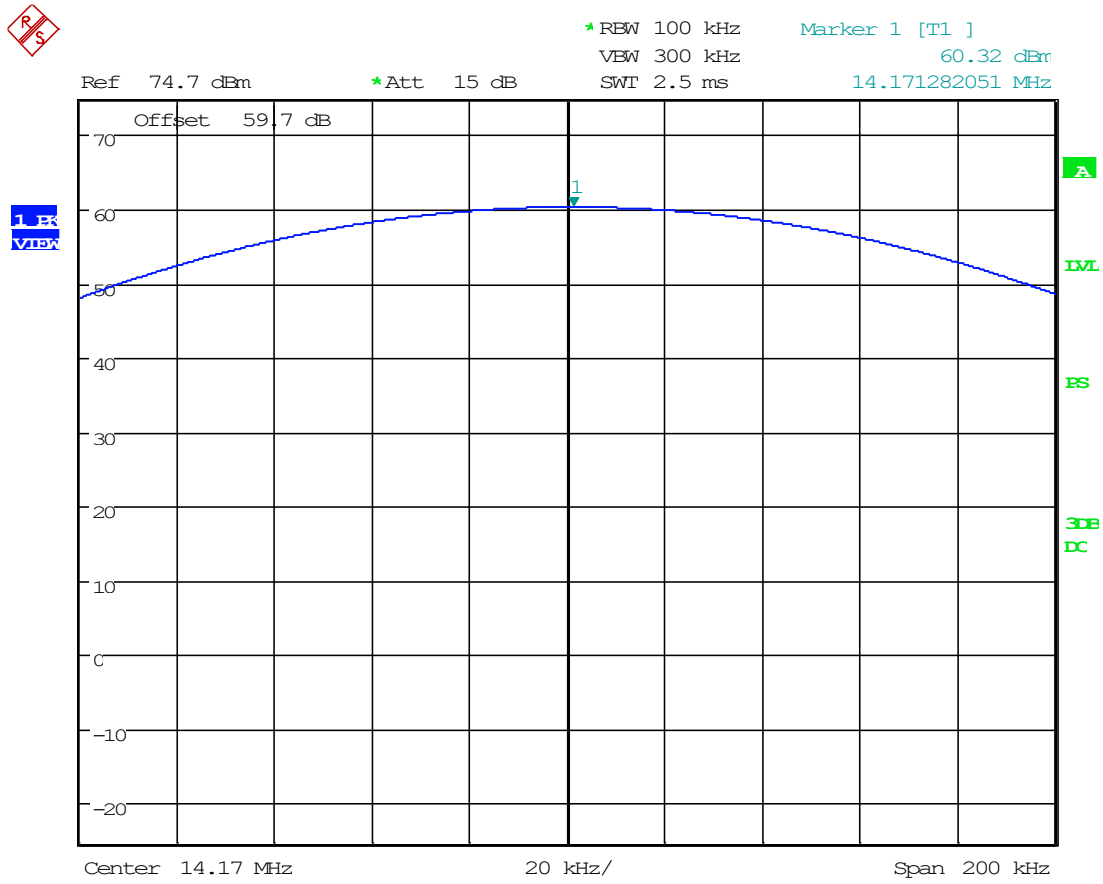


## 8.2.4 RF Power Output Plot, 10.125 MHz



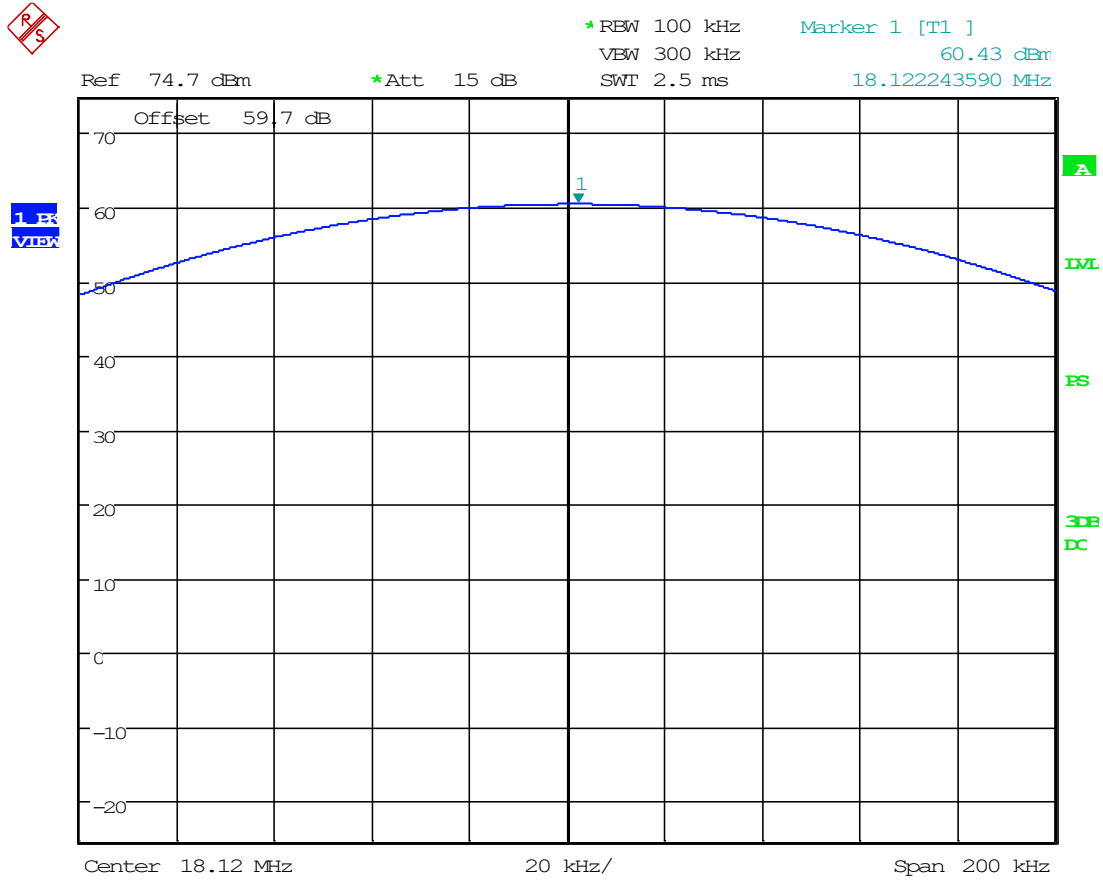
Date: 17.MAR.2025 13:07:08

## 8.2.5 RF Power Output Plot, 14.17 MHz



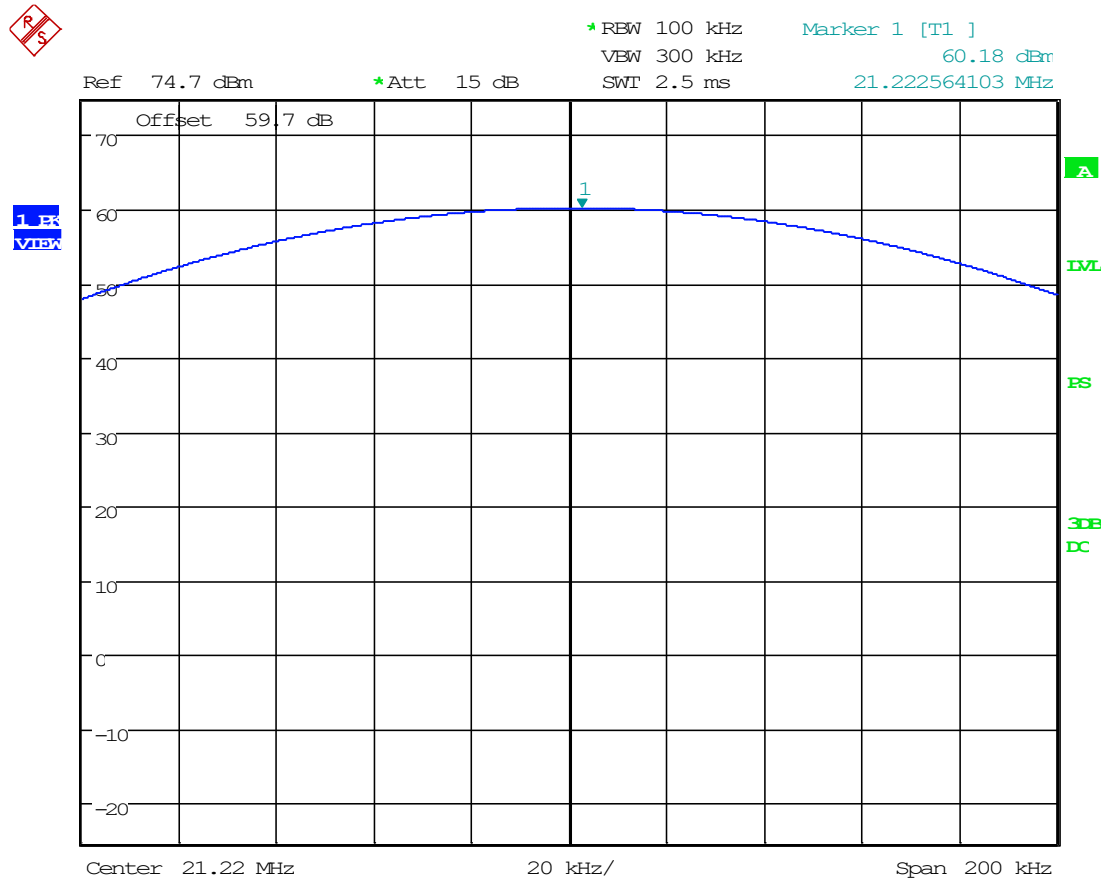
Date: 17.MAR.2025 13:08:17

## 8.2.6 RF Power Output Plot, 18.12 MHz



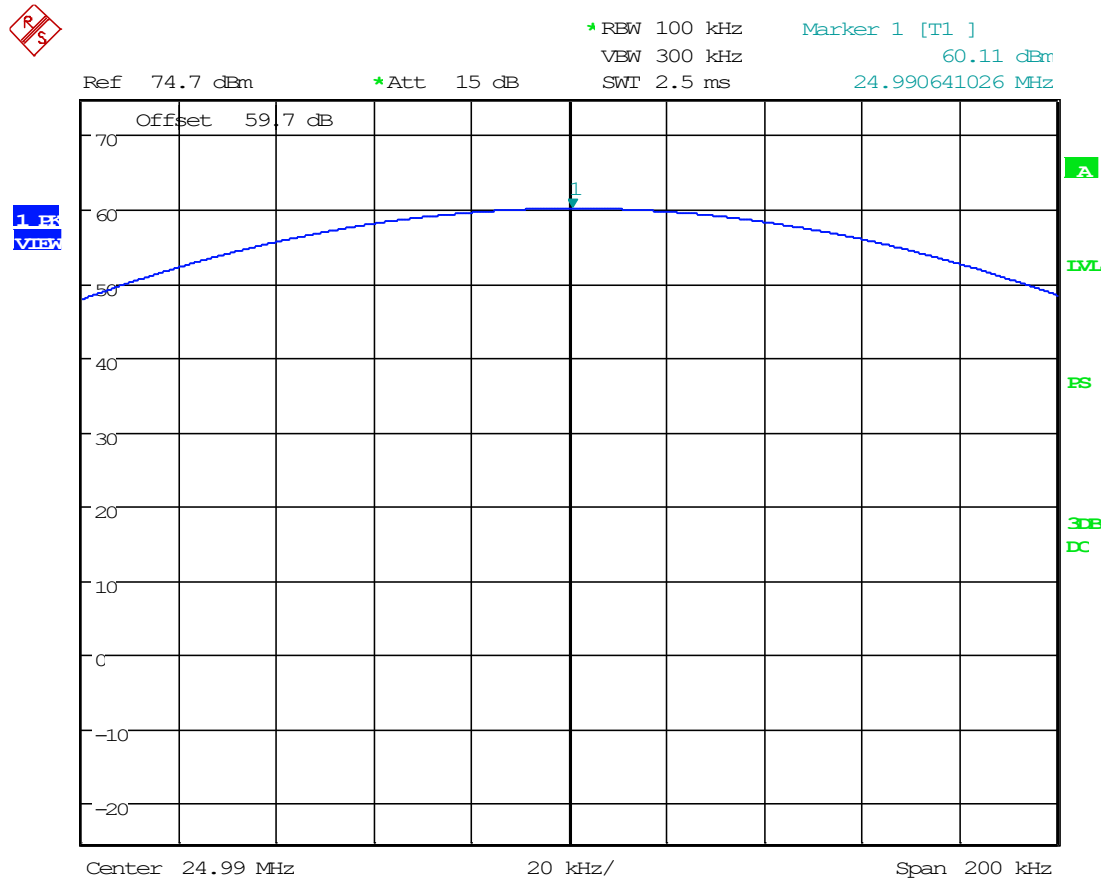
Date: 17.MAR.2025 13:10:23

## 8.2.7 RF Power Output Plot, 21.22 MHz



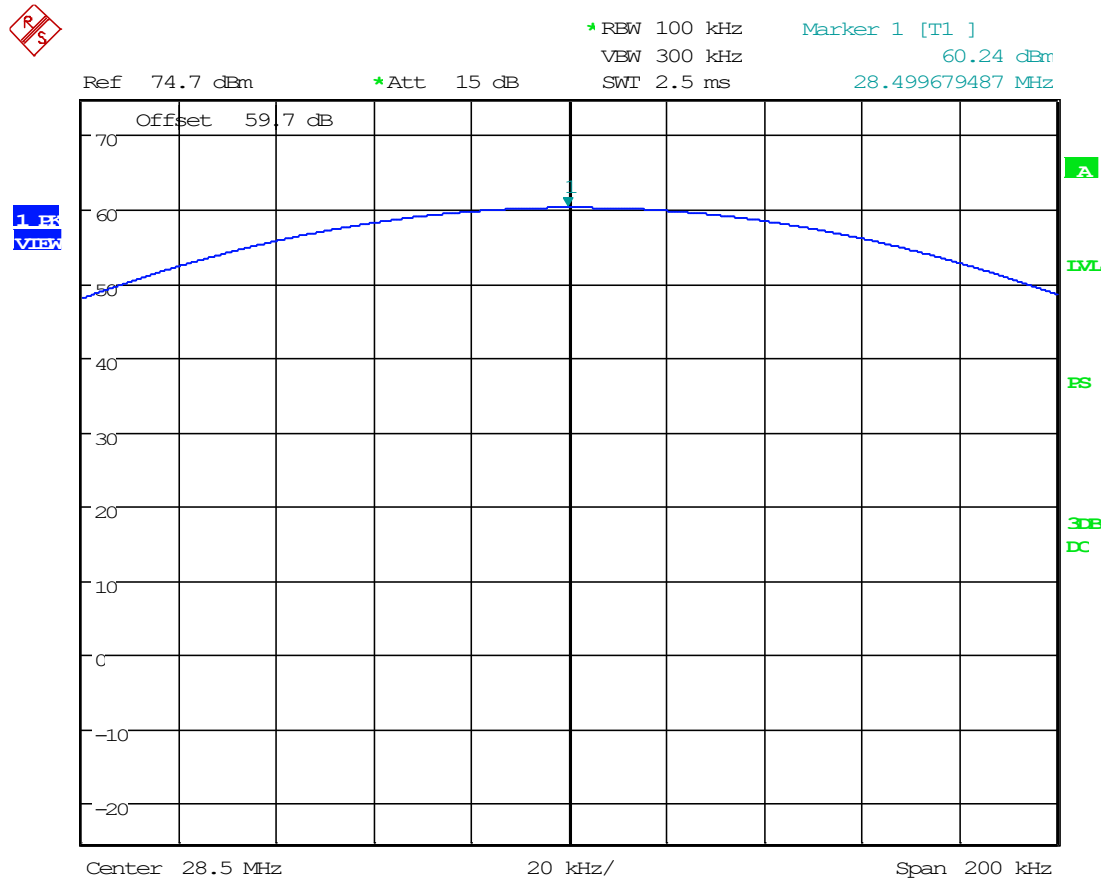
Date: 17.MAR.2025 13:11:26

## 8.2.8 RF Power Output Plot, 24.99 MHz



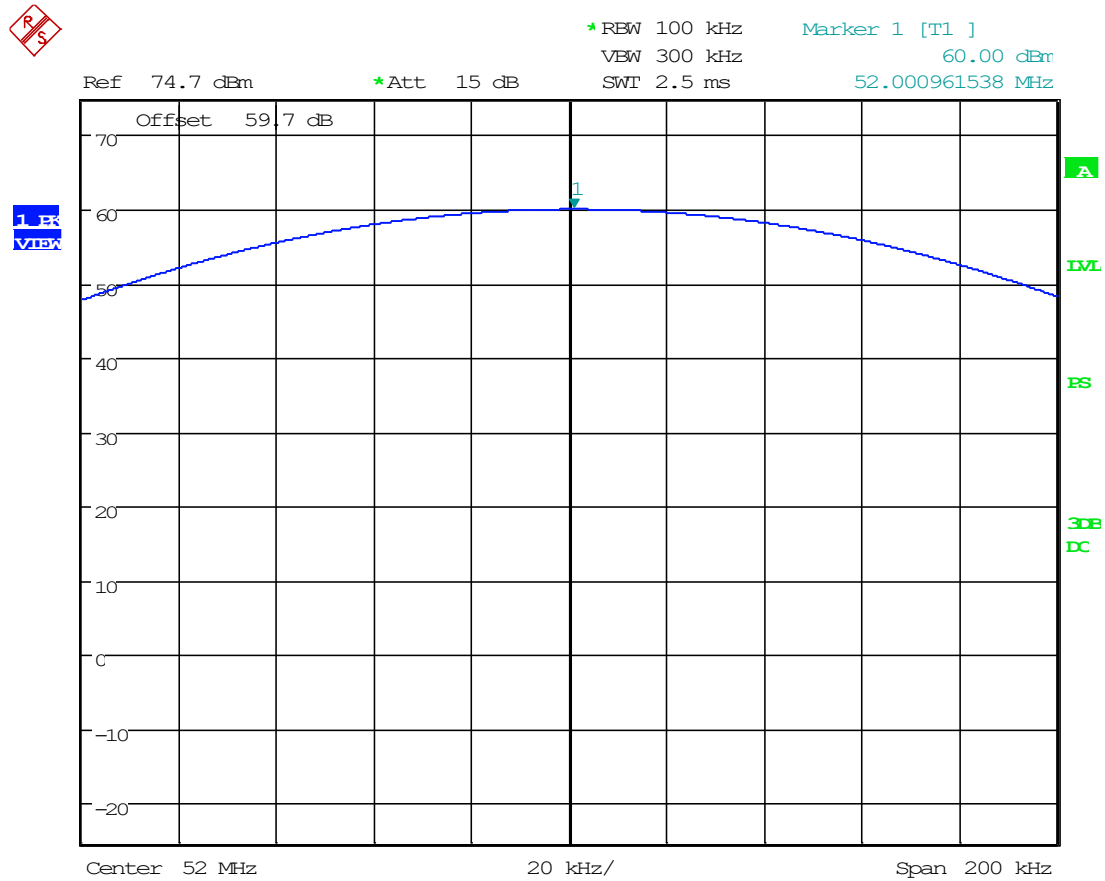
Date: 17.MAR.2025 13:12:31

## 8.2.9 RF Power Output Plot, 28.5 MHz



Date: 17.MAR.2025 13:14:05

## 8.2.10 RF Power Output Plot, 52 MHz



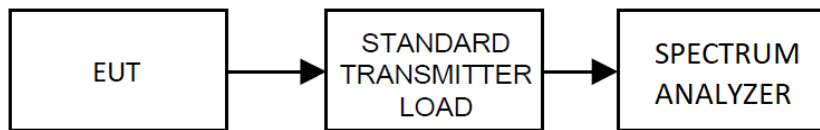
Date: 17.MAR.2025 13:14:57

### 8.3 Emission Limitations, Out-of-Band

Limits from FCC Parts 2.1053, and 97.307(d)(e); and test procedure from ANSI/ TIA 603-C:2004 & ANSI C63.4-2003

**Requirements:** The FCC Limits for spurious emissions of a transmitting operating on a frequency below 30 MHz must be at least 43dB below the mean power. For the transmitter frequency operating at 50 MHz, the RF spurious emissions must be at least 60 dB below the mean power of the fundamental.

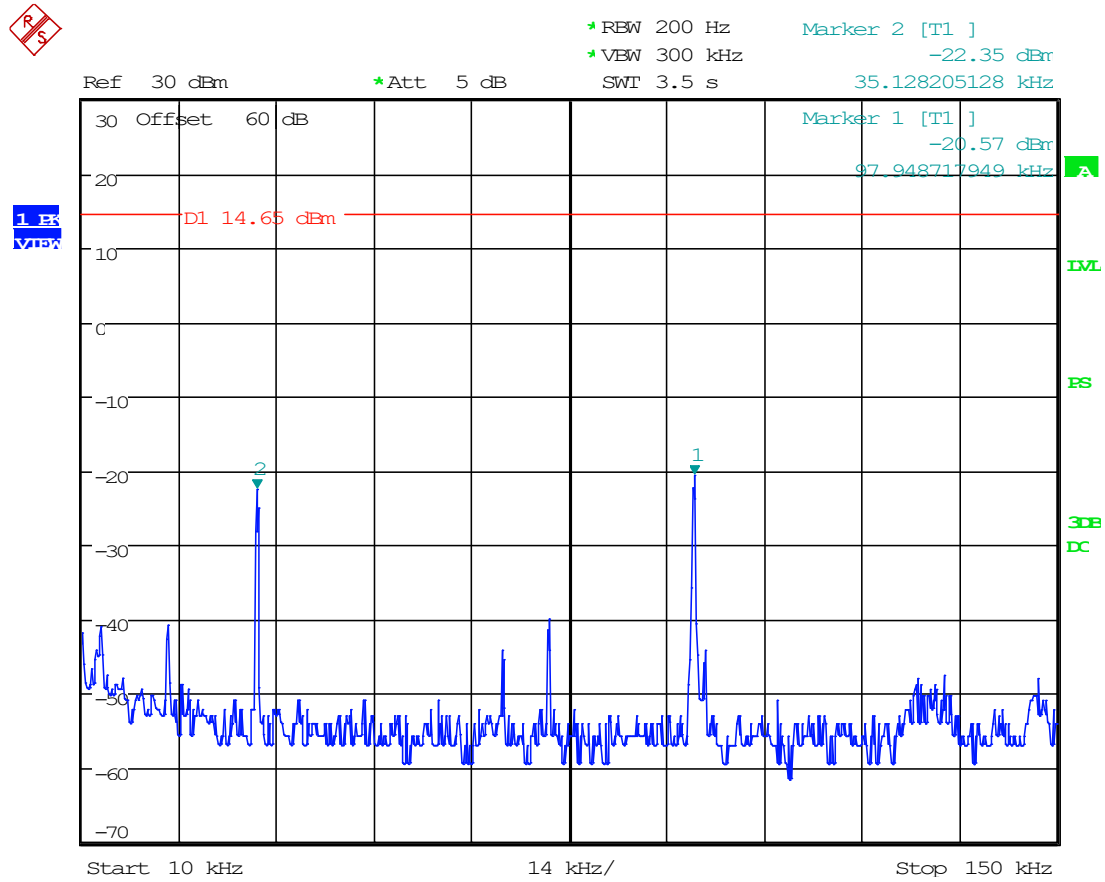
#### Conducted Test Setup





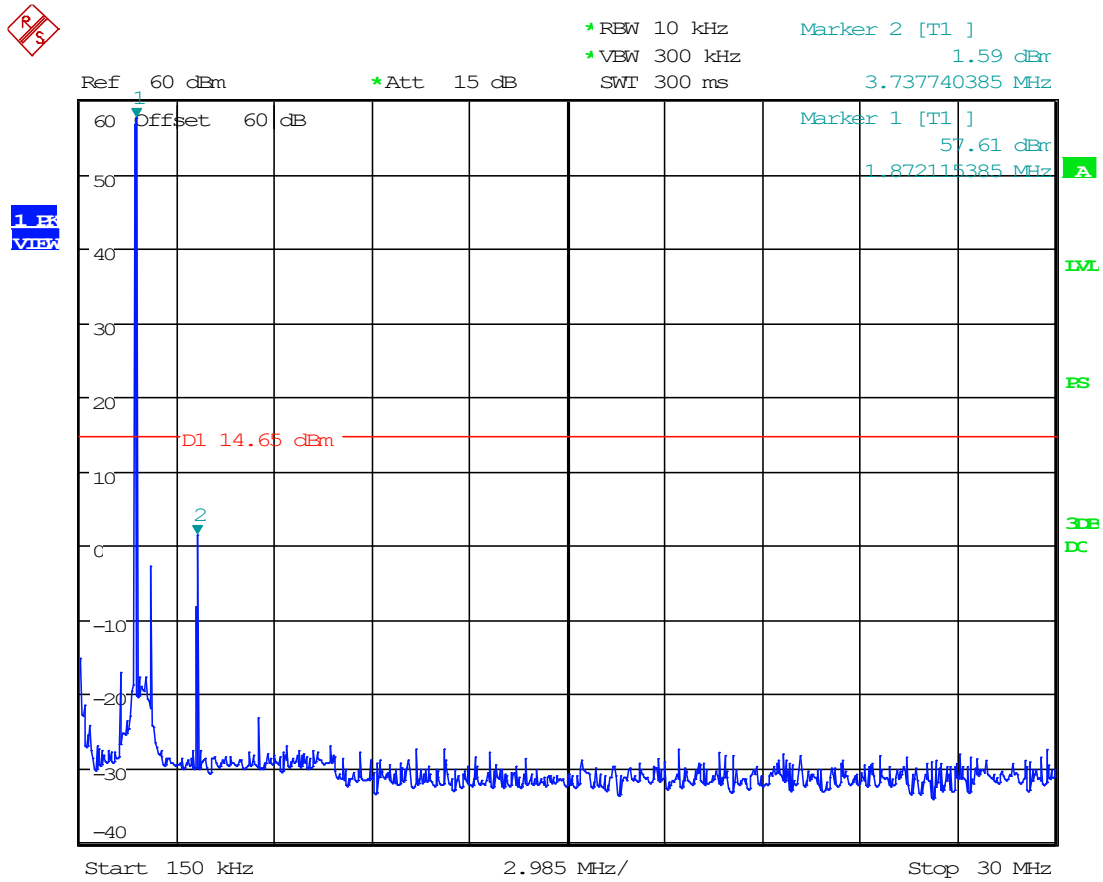
## Conducted Emissions Spectrum Plots

### 8.3.1 Conducted Emissions, 10kHz- 150kHz, 1.87 MHz



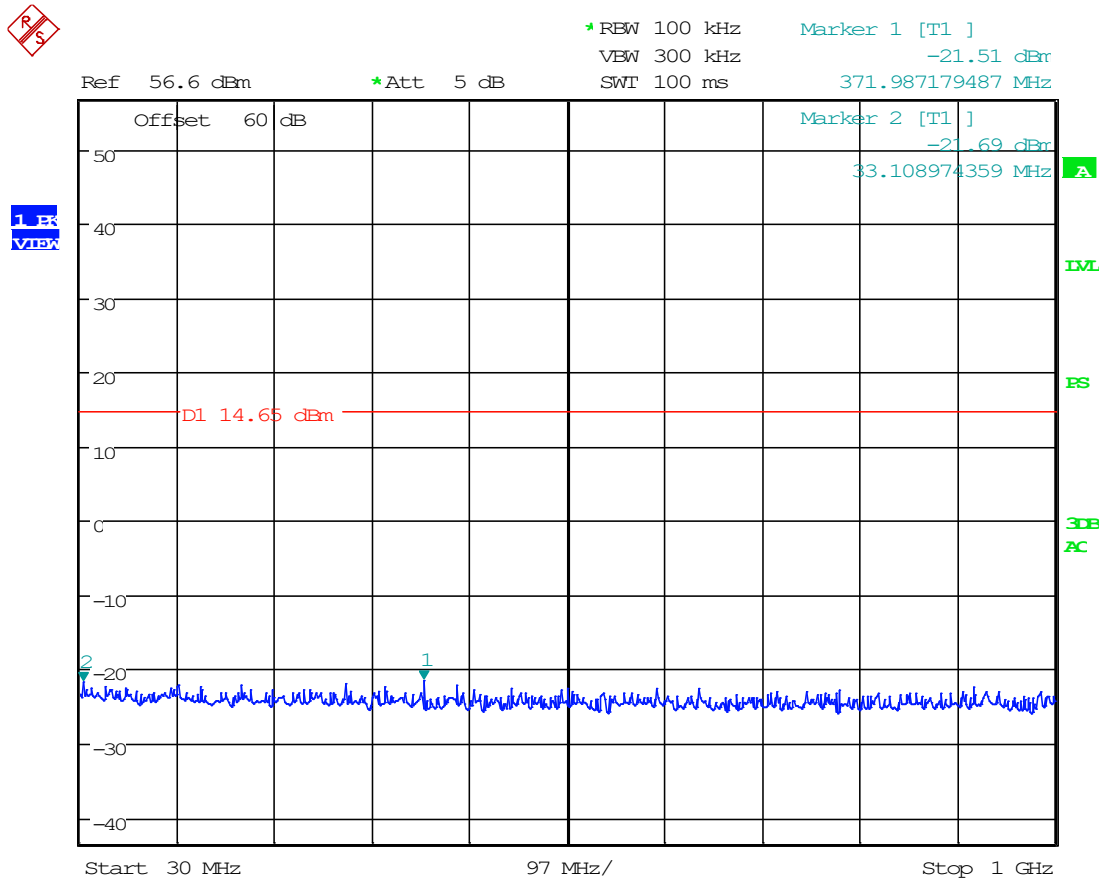
Date: 3.FEB.2025 14:33:16

### 8.3.2 Conducted Emissions, 150kHz- 30MHz, 1.87 MHz



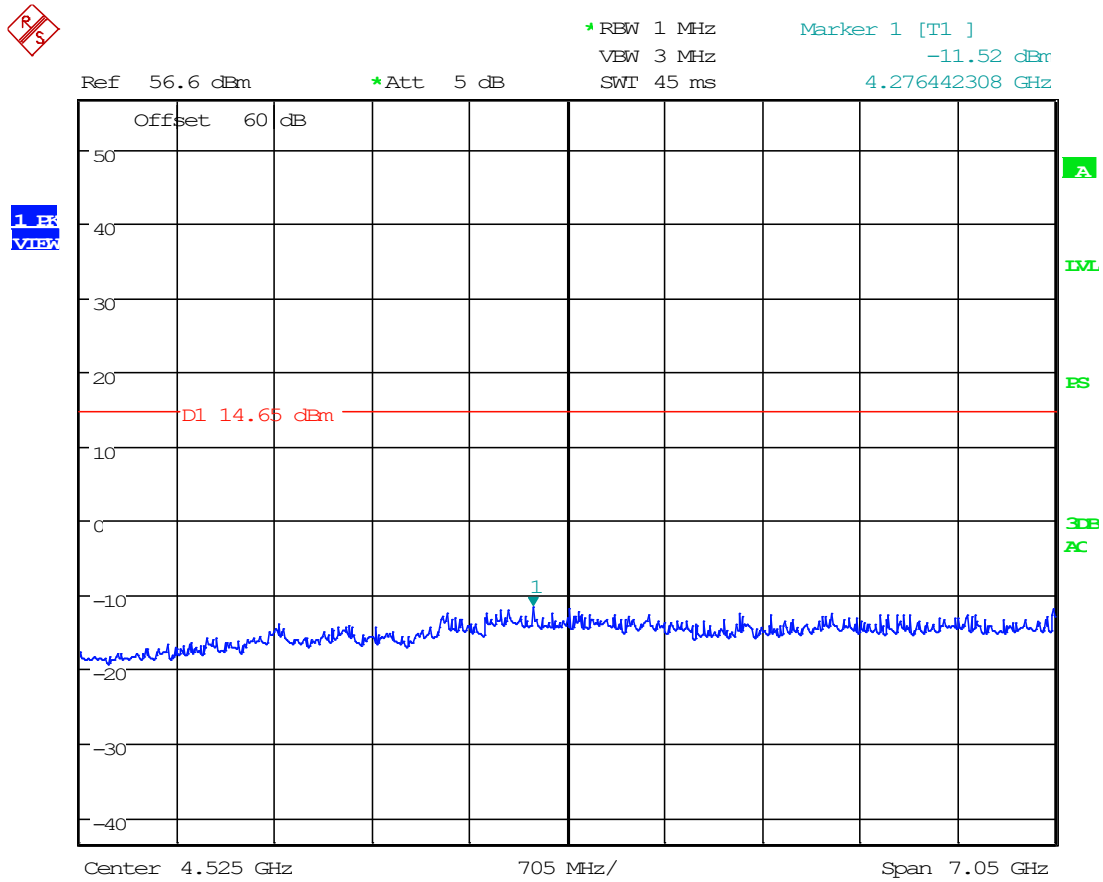
Date: 3.FEB.2025 15:01:00

### 8.3.3 Conducted Emissions, 30MHz- 1GHz, 1.87 MHz

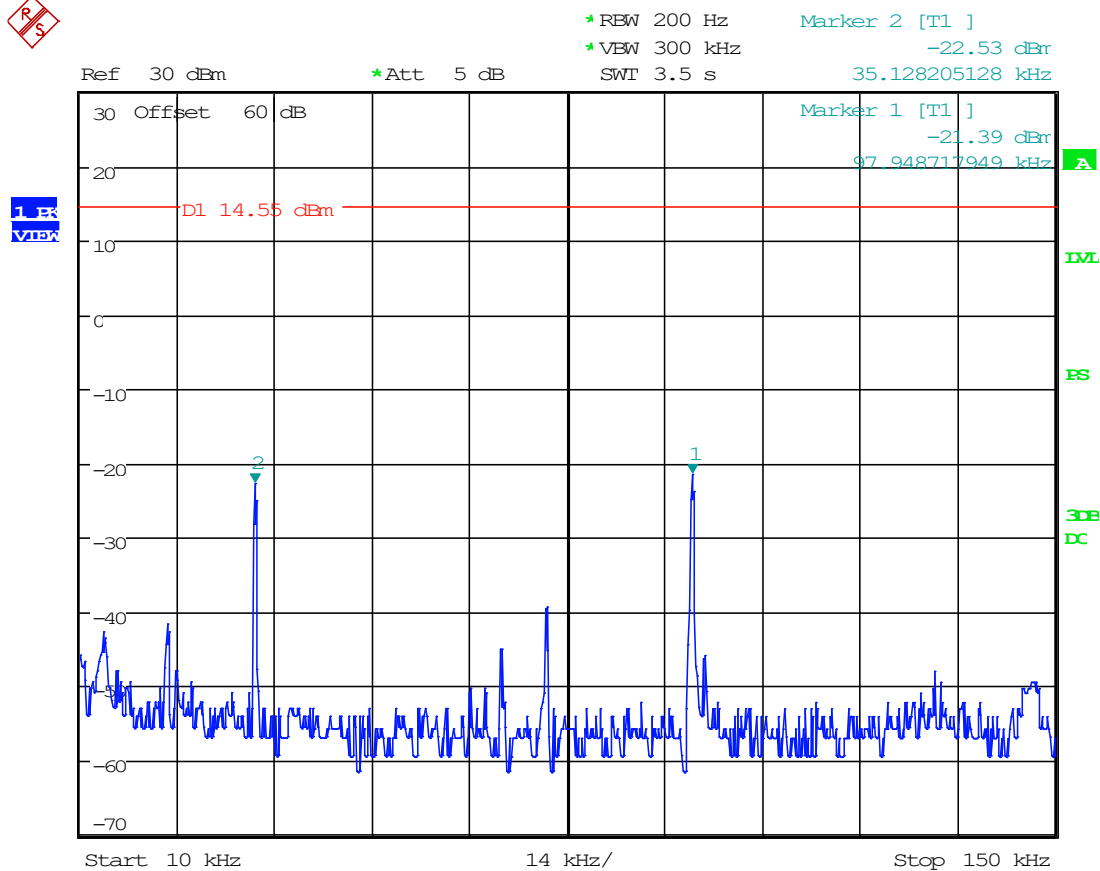


Date: 3.FEB.2025 15:16:39

### 8.3.4 Conducted Emissions, Above 1GHz, 1.87 MHz

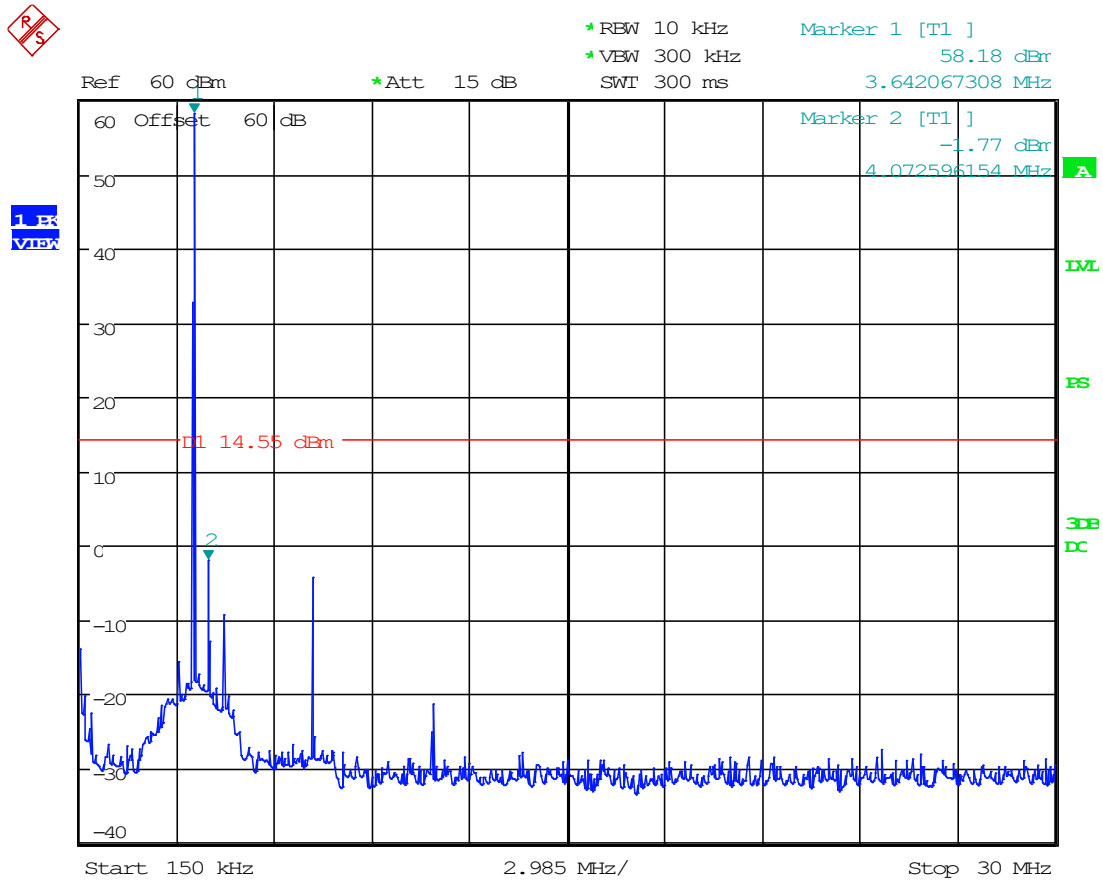


Date: 3.FEB.2025 15:31:01



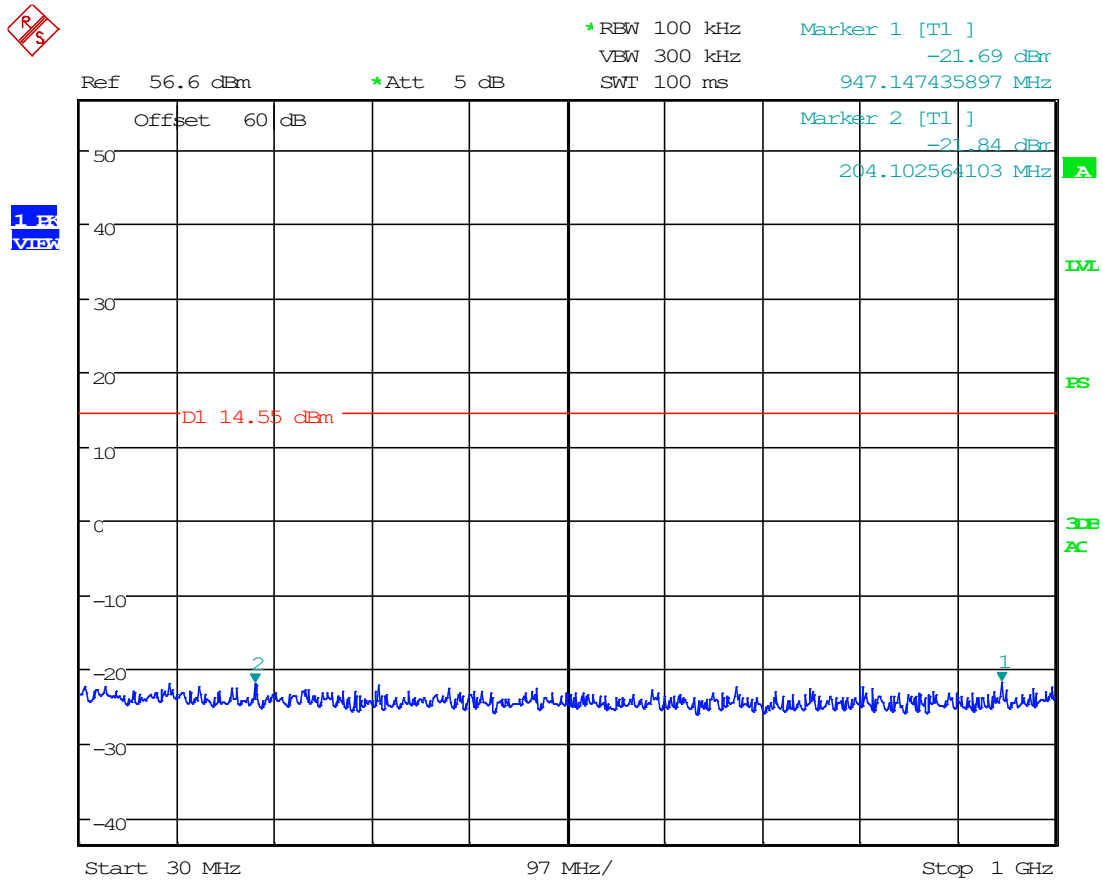
Date: 3.FEB.2025 14:34:48

### 8.3.6 Conducted Emissions, 150kHz- 30MHz, 3.65 MHz



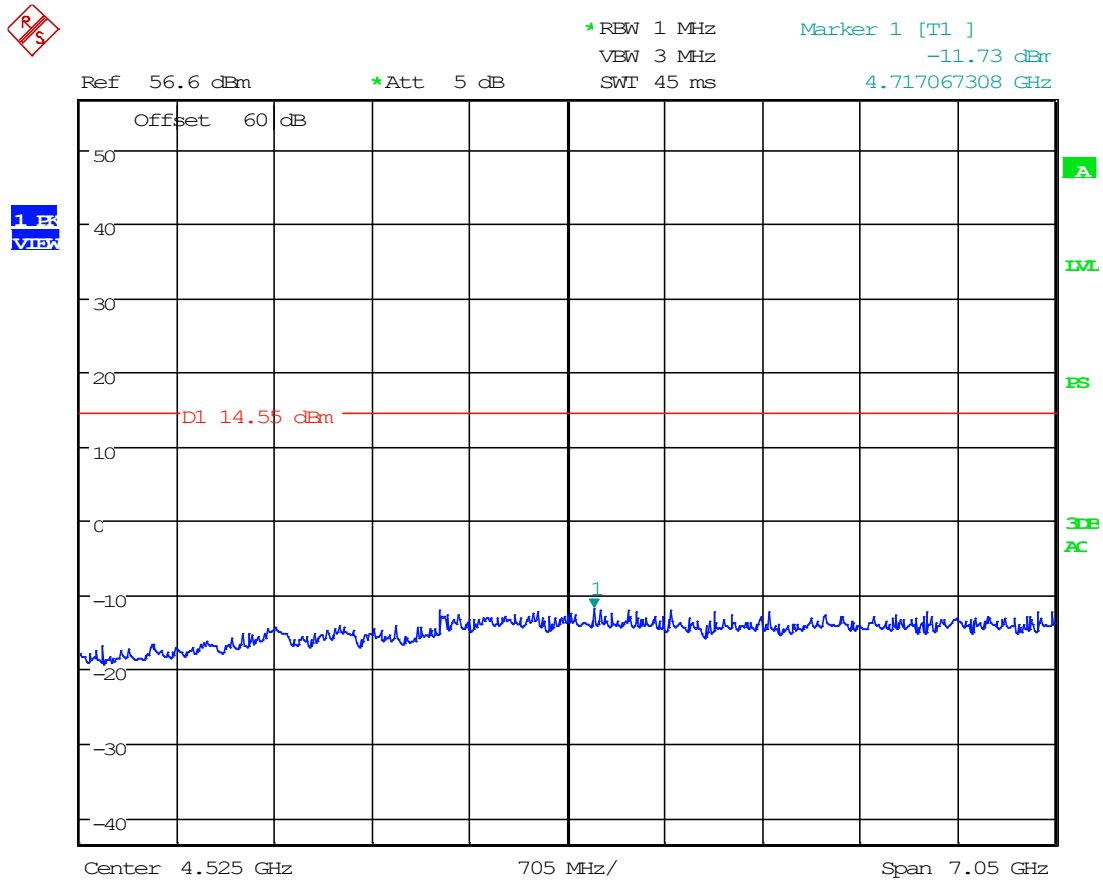
Date: 3.FEB.2025 15:02:31

### 8.3.7 Conducted Emissions, 30MHz- 1GHz, 3.65 MHz



Date: 3.FEB.2025 15:17:38

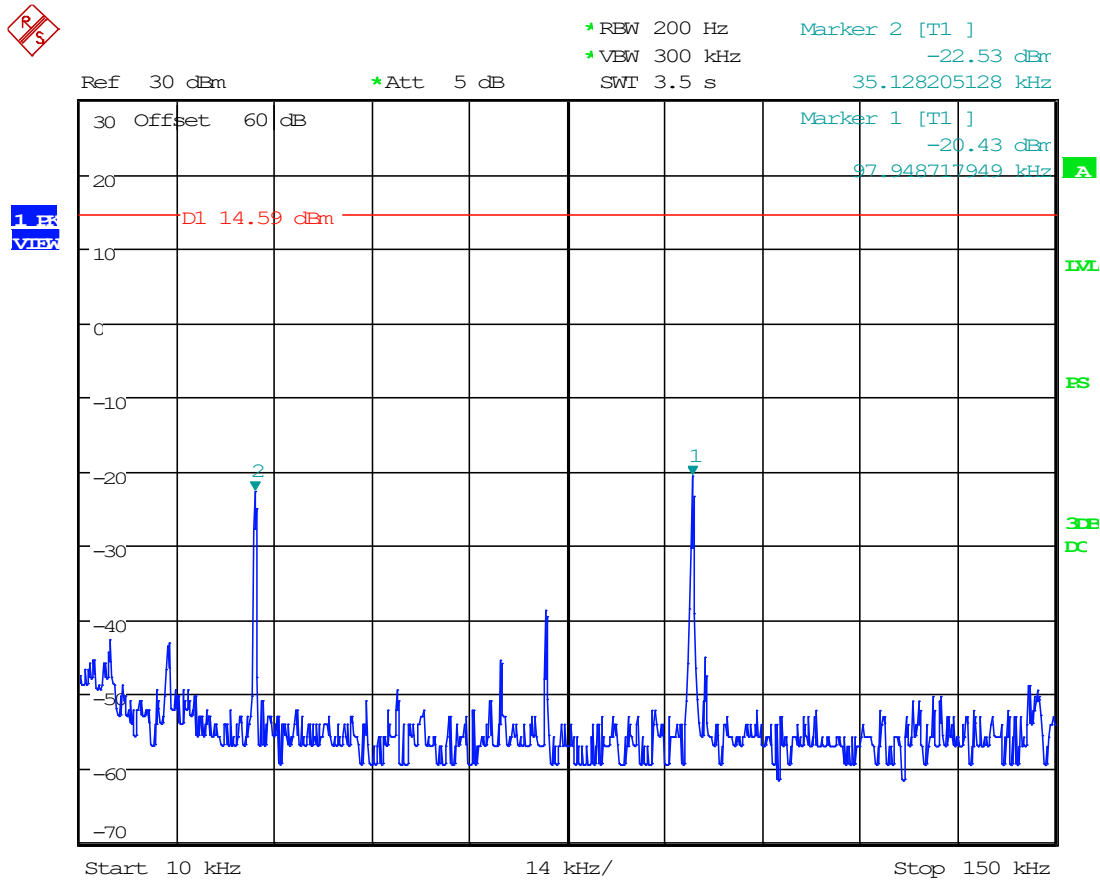
### 8.3.8 Conducted Emissions, Above 1GHz, 3.65 MHz



Date: 3.FEB.2025 15:31:54

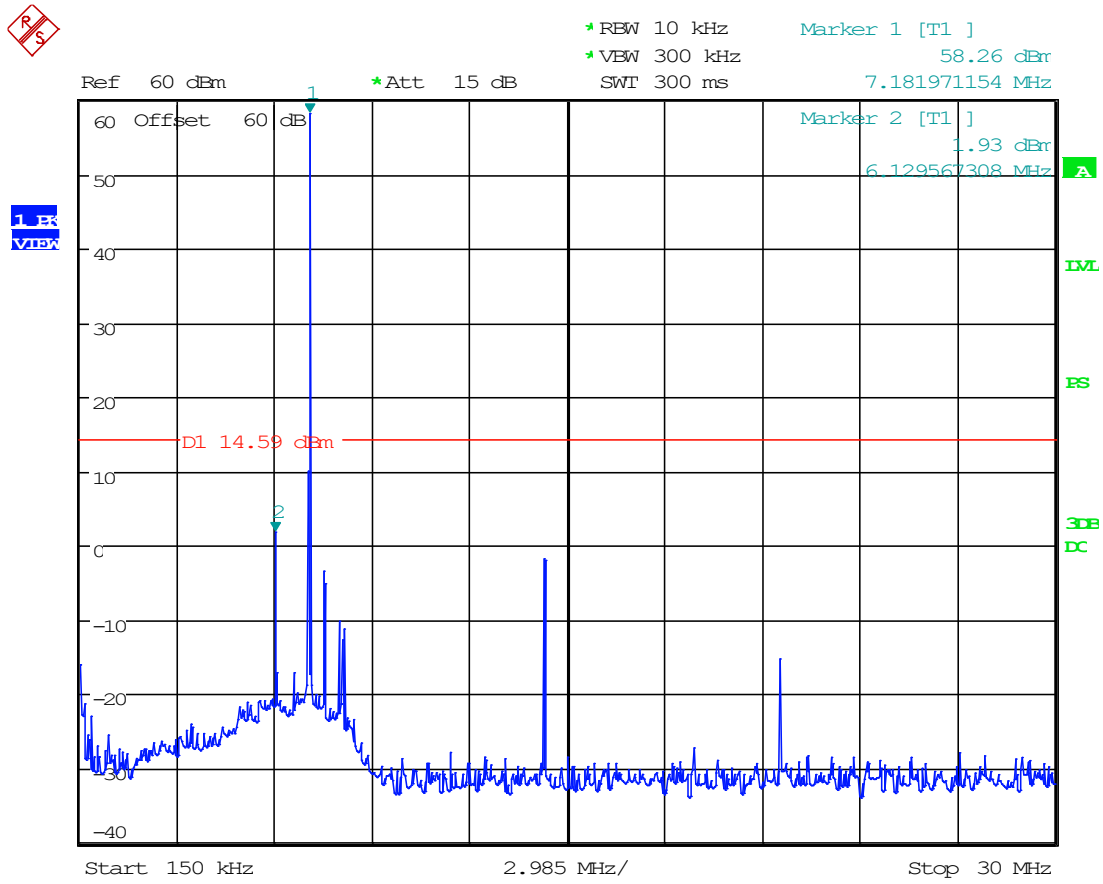


### 8.3.9 Conducted Emissions, 10kHz- 150kHz, 7.19 MHz



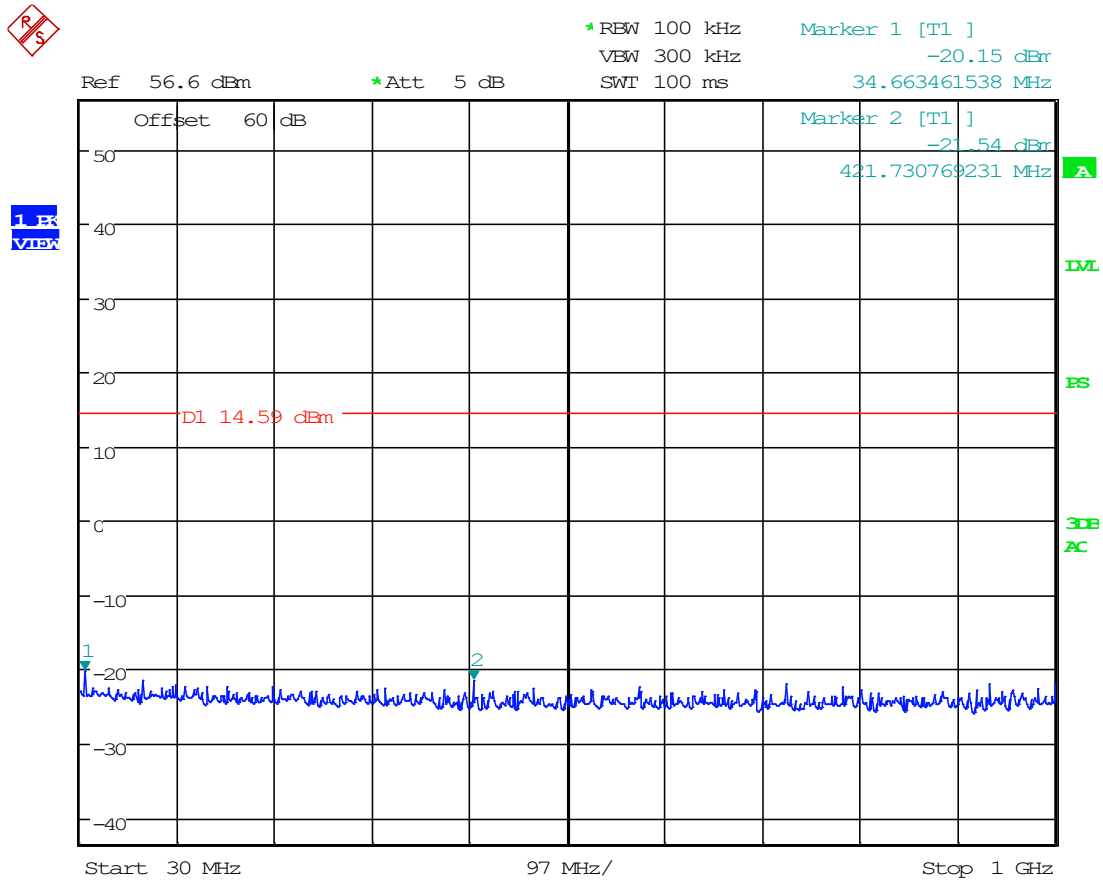
Date: 3.FEB.2025 14:36:04

### 8.3.10 Conducted Emissions, 150kHz- 30MHz, 7.19 MHz



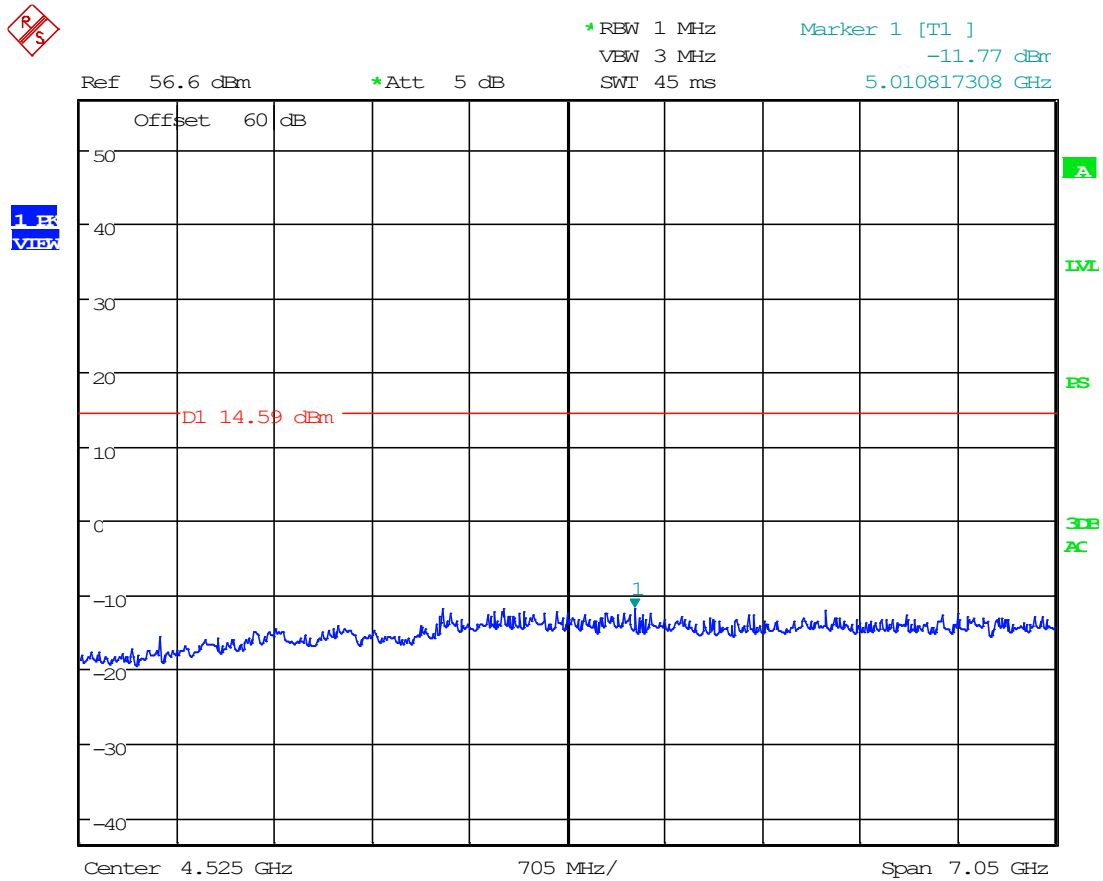
Date: 3.FEB.2025 15:03:41

### 8.3.11 Conducted Emissions, 30MHz- 1GHz, 7.19 MHz



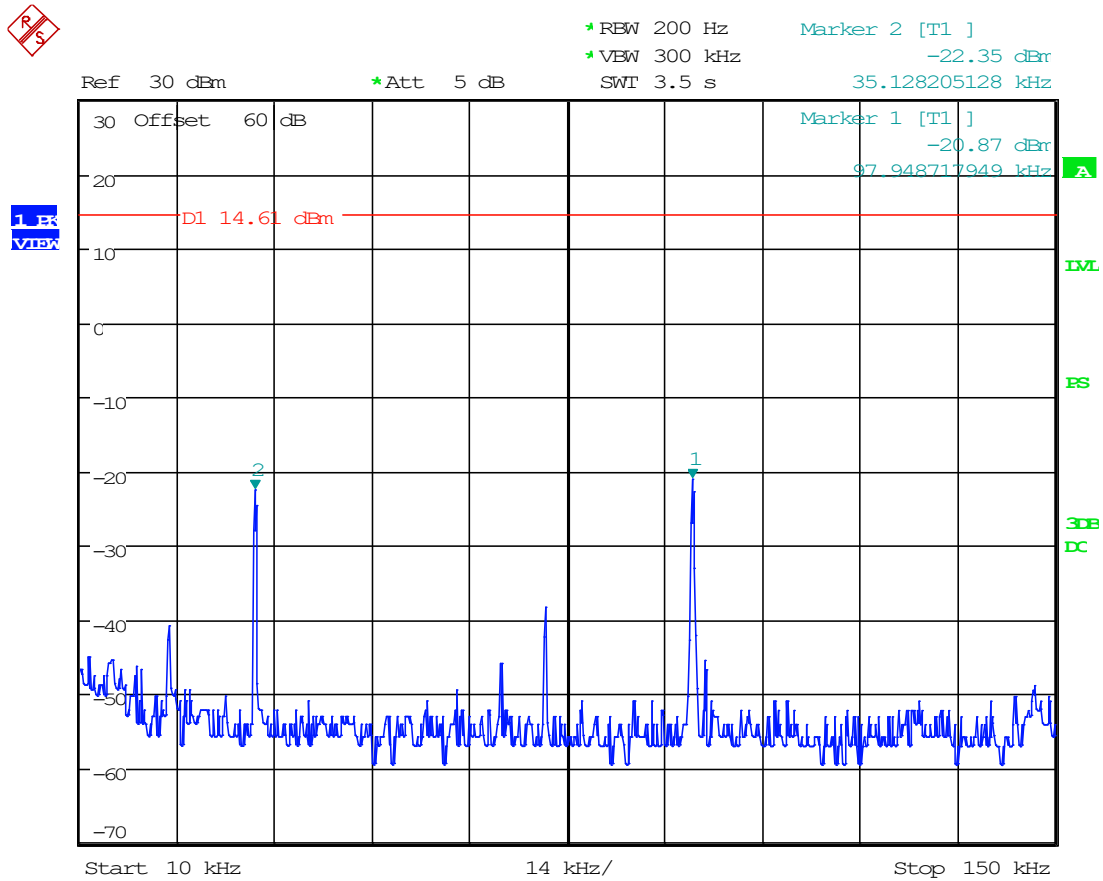
Date: 3.FEB.2025 15:18:34

### 8.3.12 Conducted Emissions, Above 1GHz, 7.19 MHz



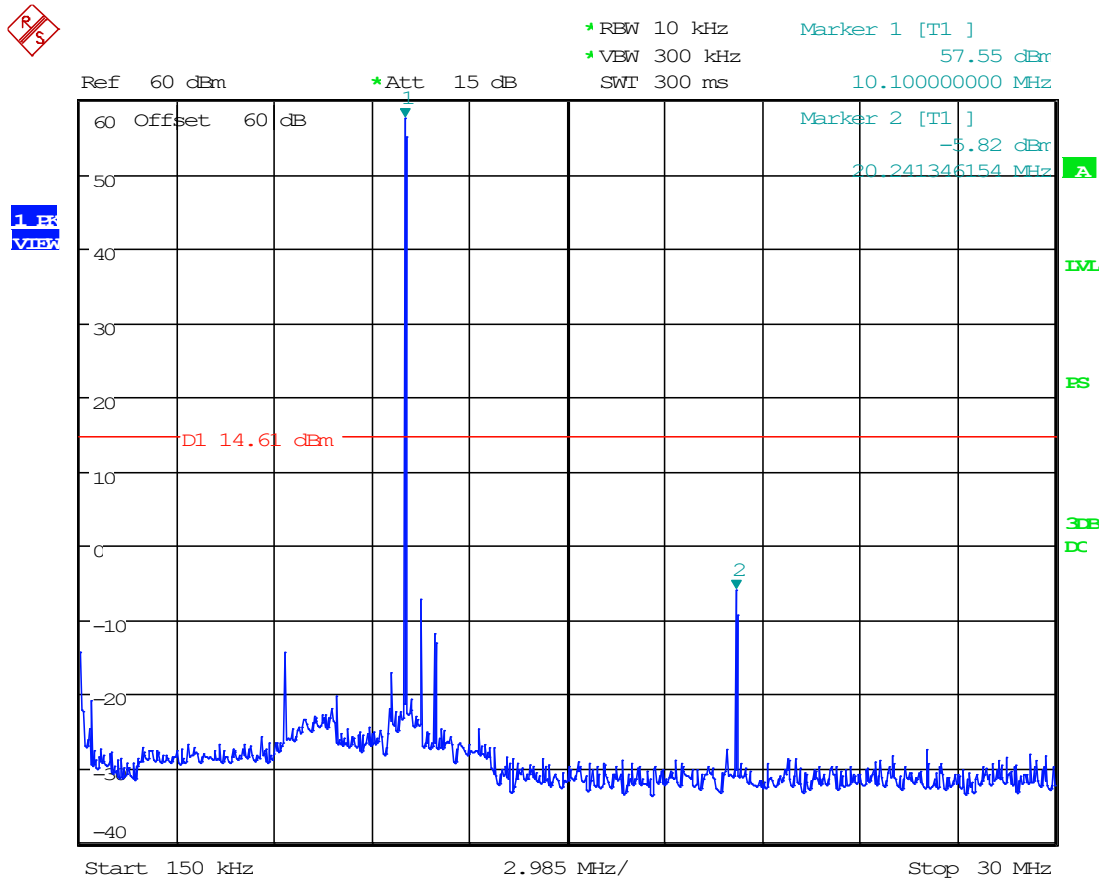
Date: 3.FEB.2025 15:33:13

### 8.3.13 Conducted Emissions, 10kHz- 150kHz, 10.125 MHz



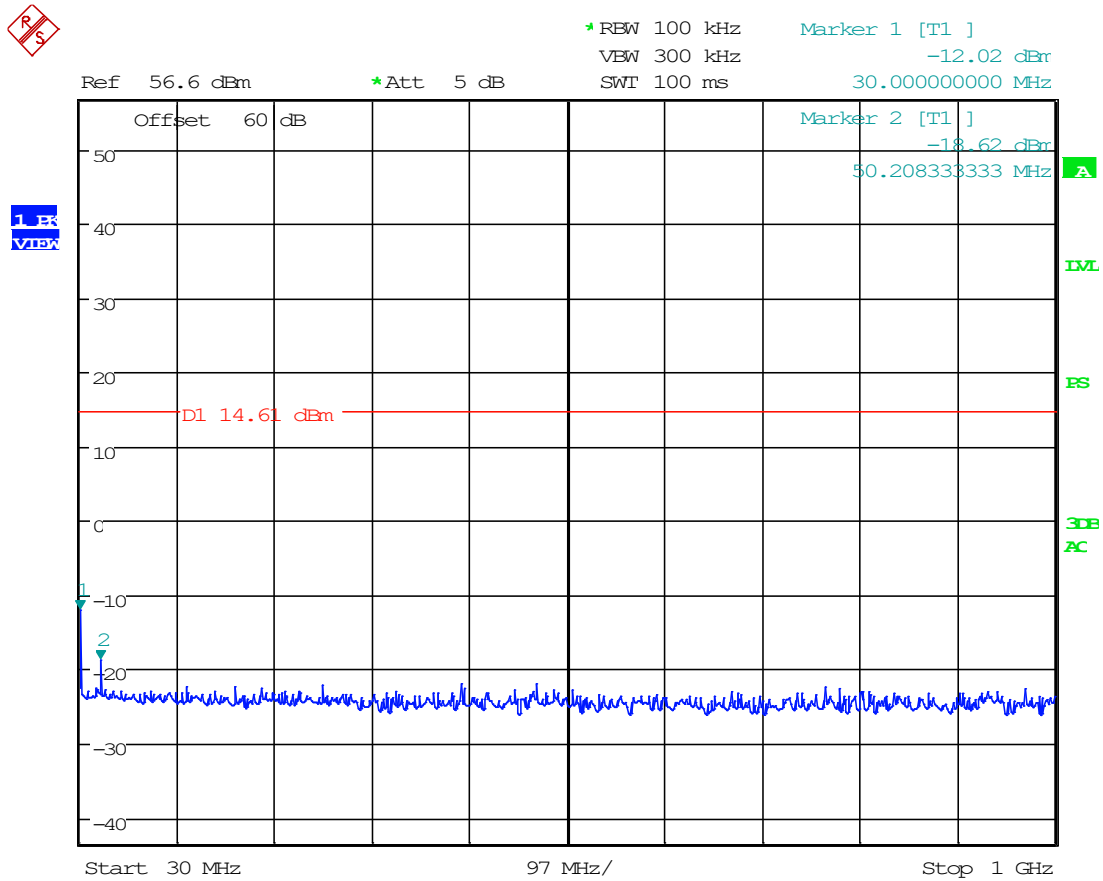
Date: 3.FEB.2025 14:37:42

### 8.3.14 Conducted Emissions, 150kHz- 30MHz, 10.125 MHz



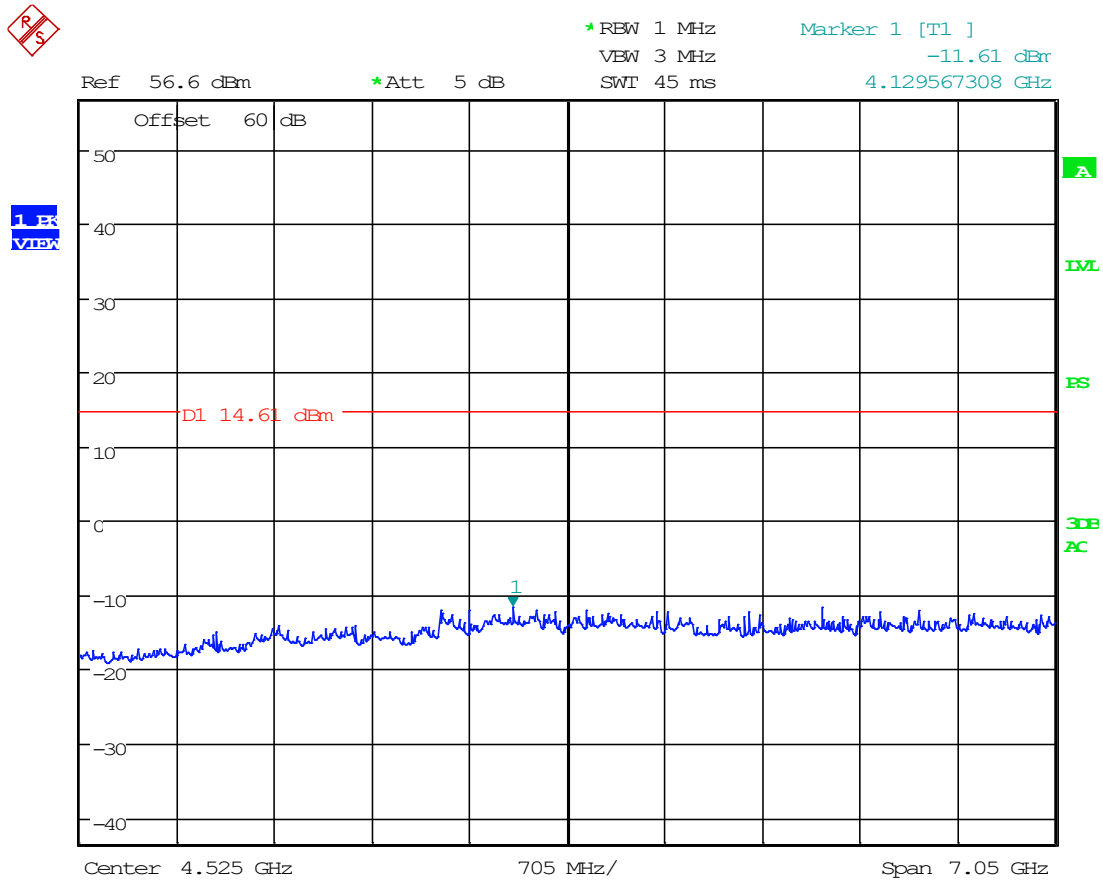
Date: 3.FEB.2025 15:04:44

### 8.3.15 Conducted Emissions, 30MHz- 1GHz, 10.125 MHz



Date: 3.FEB.2025 15:19:45

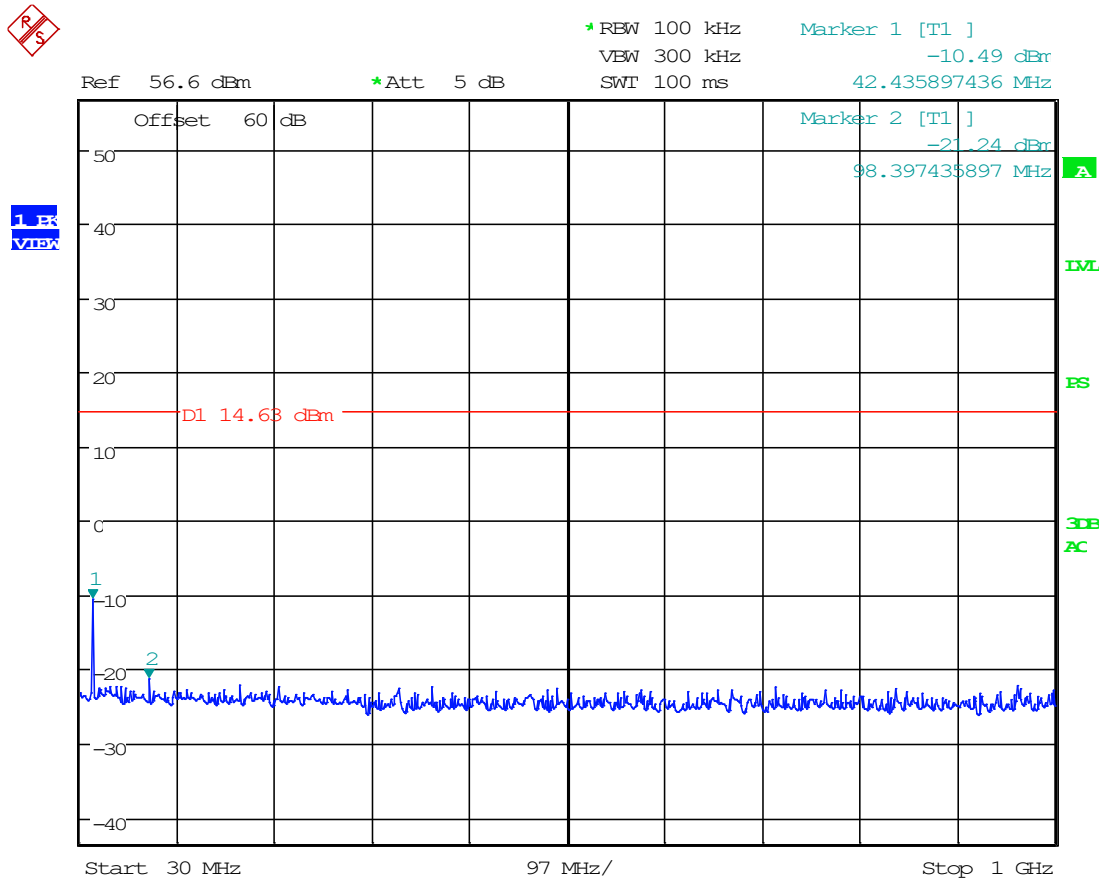
### 8.3.16 Conducted Emissions, Above 1GHz, 10.125 MHz



Date: 3.FEB.2025 15:34:29



### 8.3.17 Conducted Emissions, 10kHz- 150kHz, 14.17 MHz

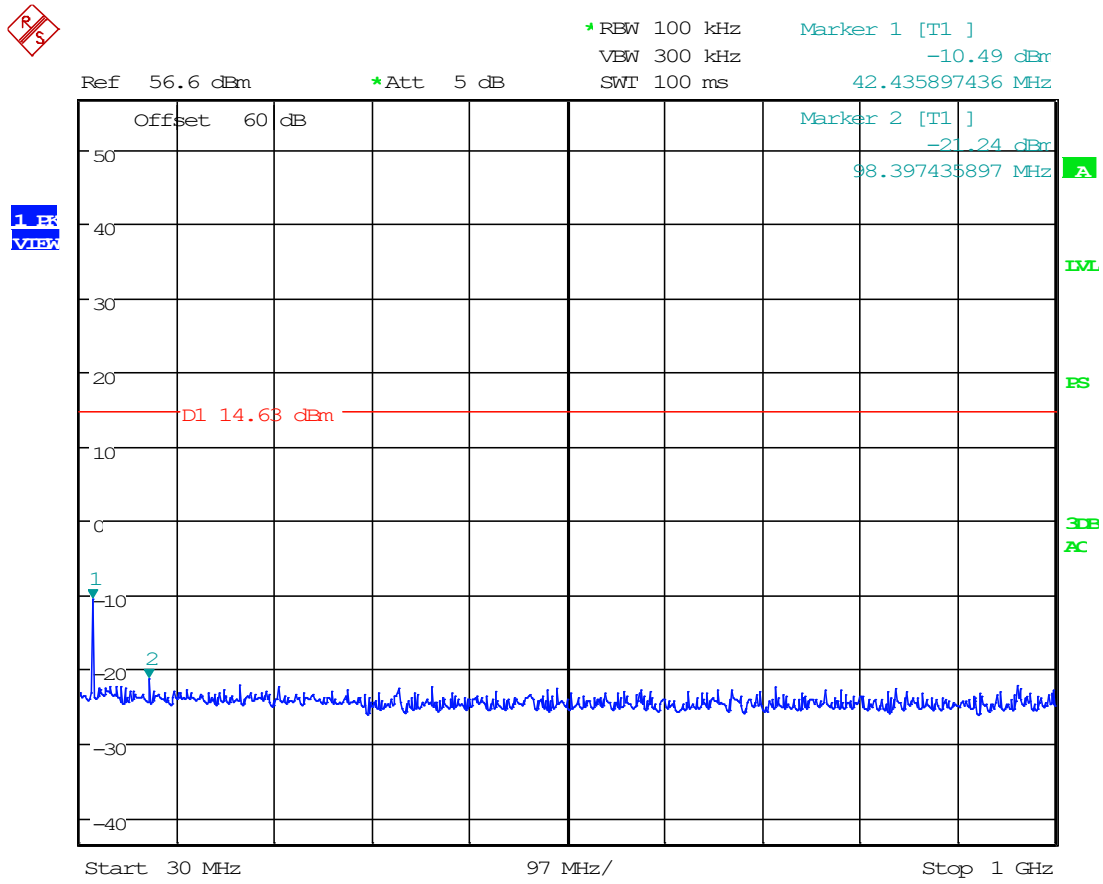


Date: 3.FEB.2025 15:21:36



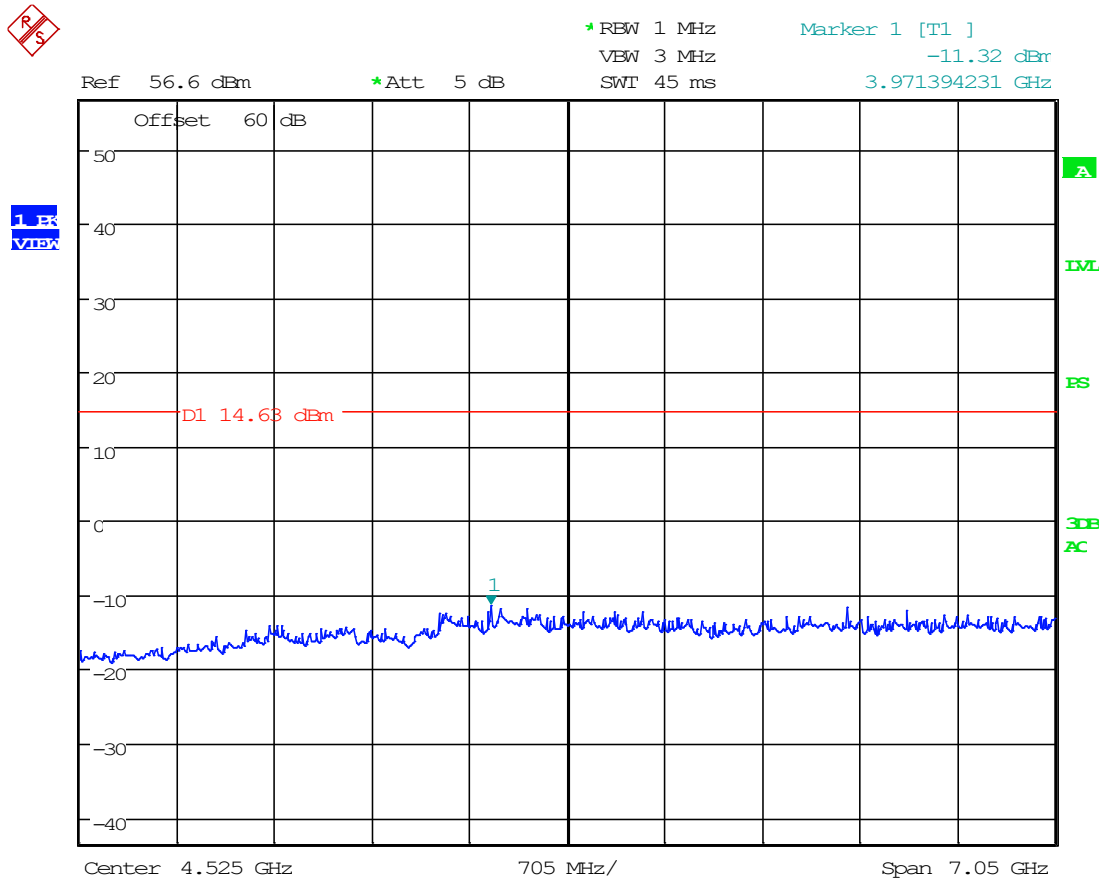
| Number of nodes | Frequency |
|-----------------|-----------|
| 0               | 10        |
| 1               | 9         |
| 2               | 8         |
| 3               | 7         |
| 4               | 6         |
| 5               | 5         |
| 6               | 4         |
| 7               | 3         |
| 8               | 2         |
| 9               | 1         |
| 10              | 0         |

### 8.3.19 Conducted Emissions, 30MHz- 1GHz, 14.17 MHz



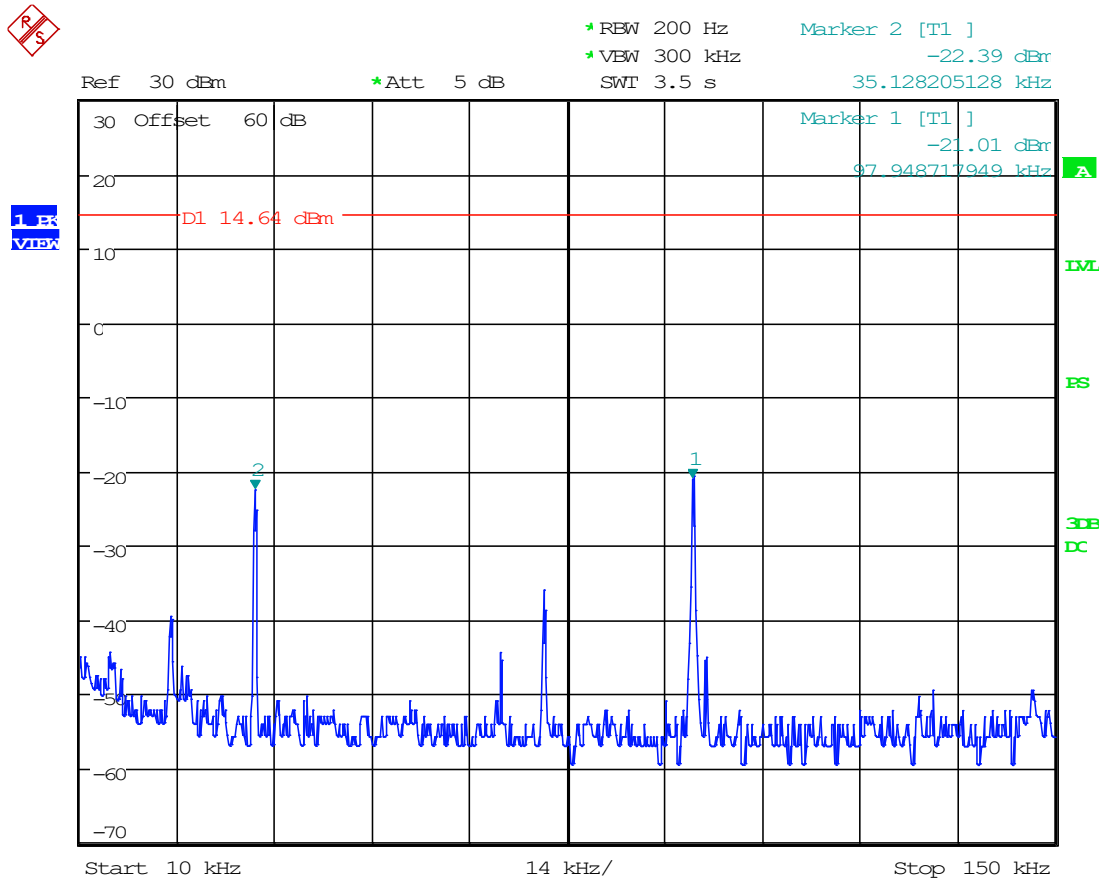
Date: 3.FEB.2025 15:21:36

### 8.3.20 Conducted Emissions, Above 1GHz, 14.17 MHz



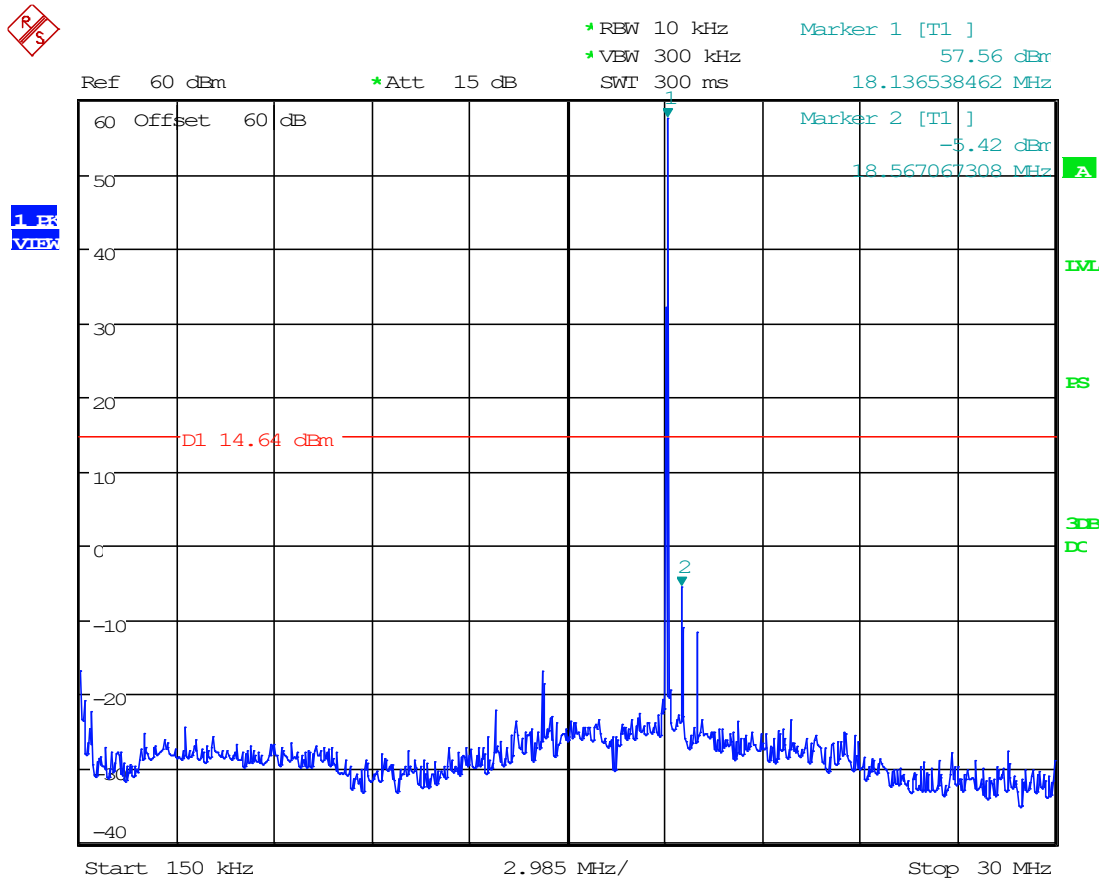
Date: 3.FEB.2025 15:35:17

### 8.3.21 Conducted Emissions, 10kHz- 150kHz, 18.12 MHz



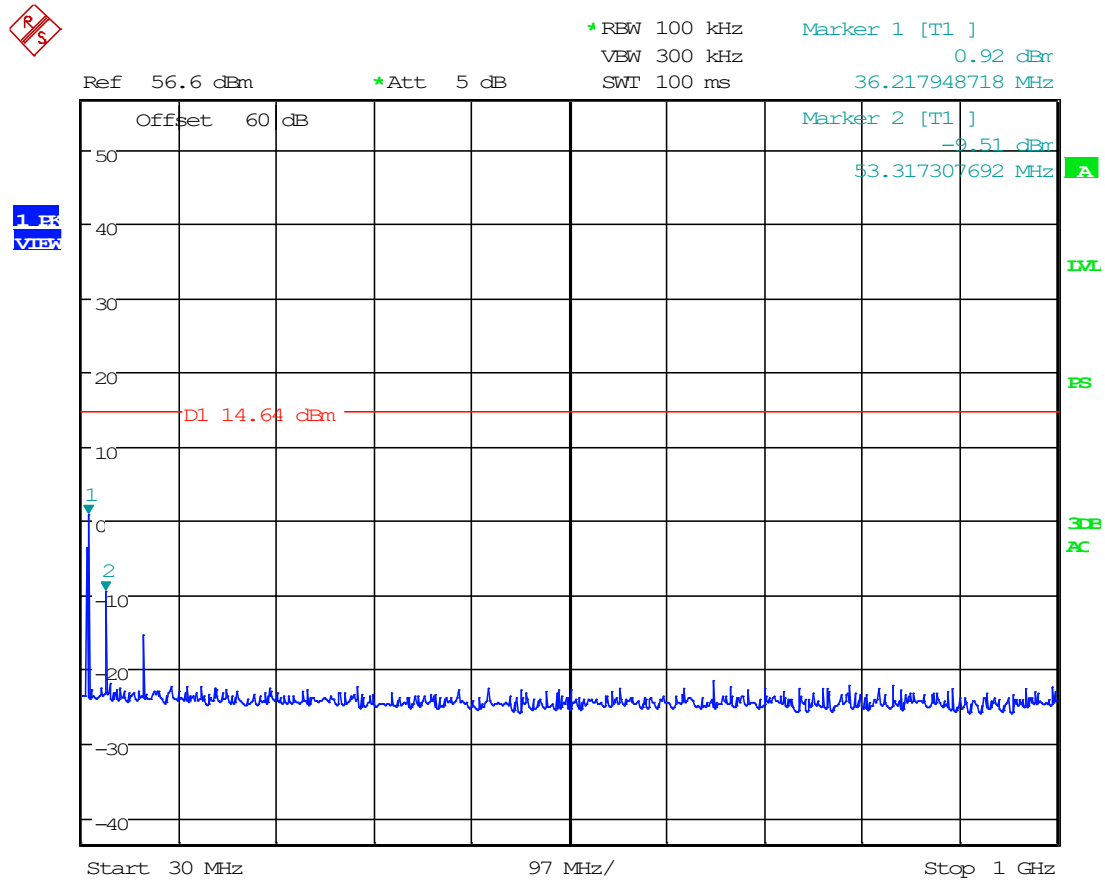
Date: 3.FEB.2025 14:41:28

### 8.3.22 Conducted Emissions, 150kHz- 30MHz, 18.12 MHz



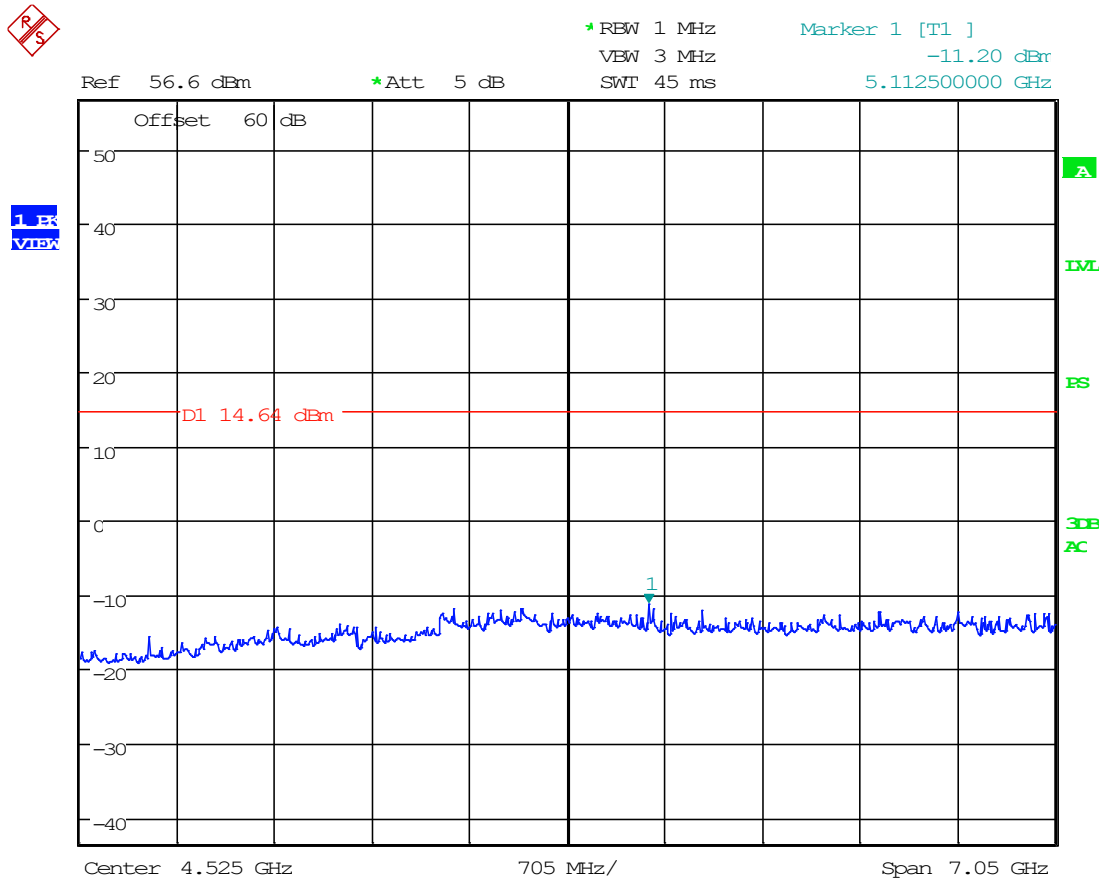
Date: 3.FEB.2025 15:07:15

### 8.3.23 Conducted Emissions, 30MHz- 1GHz, 18.12 MHz



Date: 3.FEB.2025 15:23:26

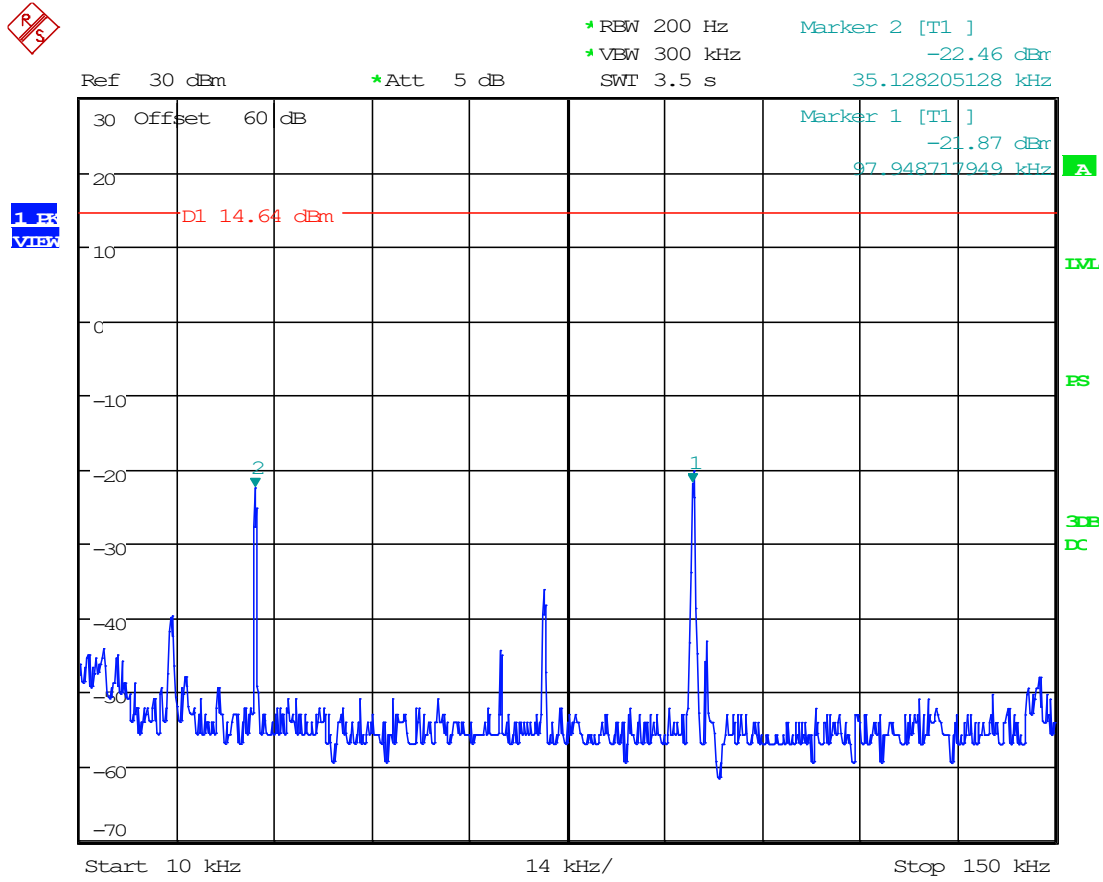
### 8.3.24 Conducted Emissions, Above 1GHz, 18.12 MHz



Date: 3.FEB.2025 15:36:02

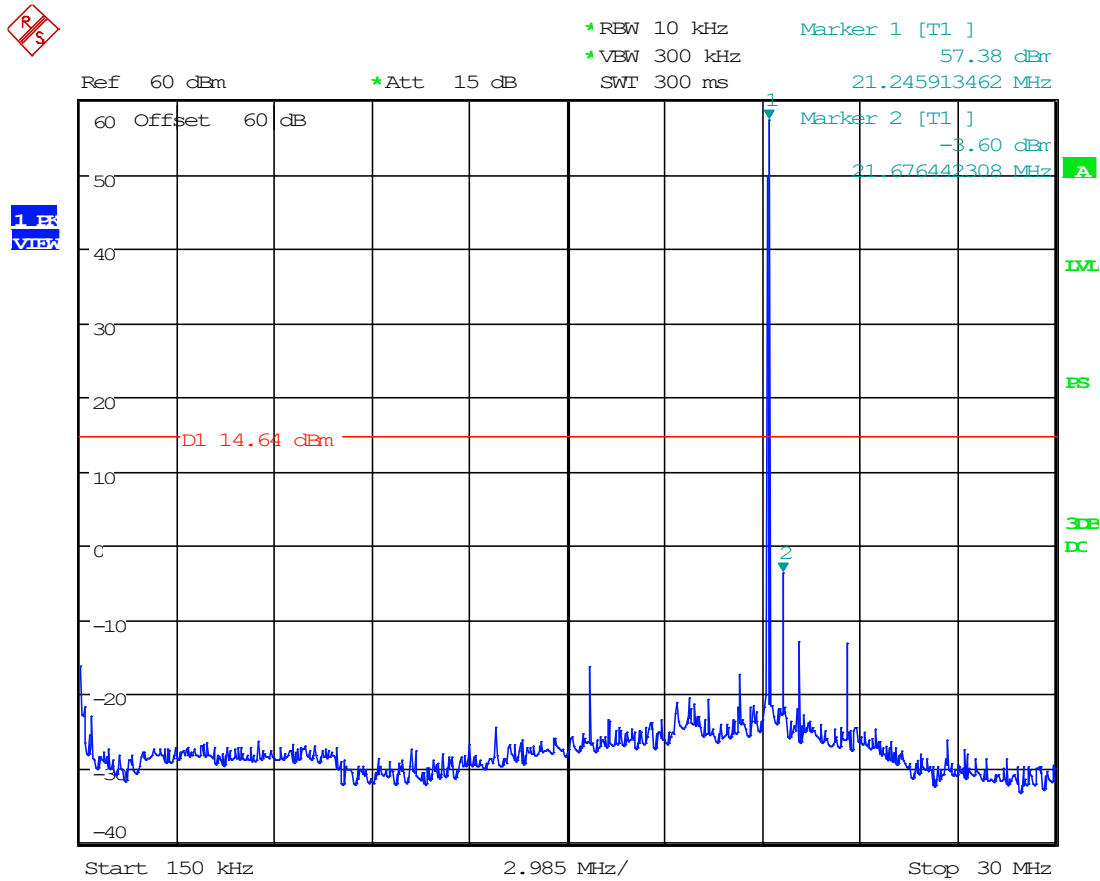


### 8.3.25 Conducted Emissions, 10kHz- 150kHz, 21.22 MHz



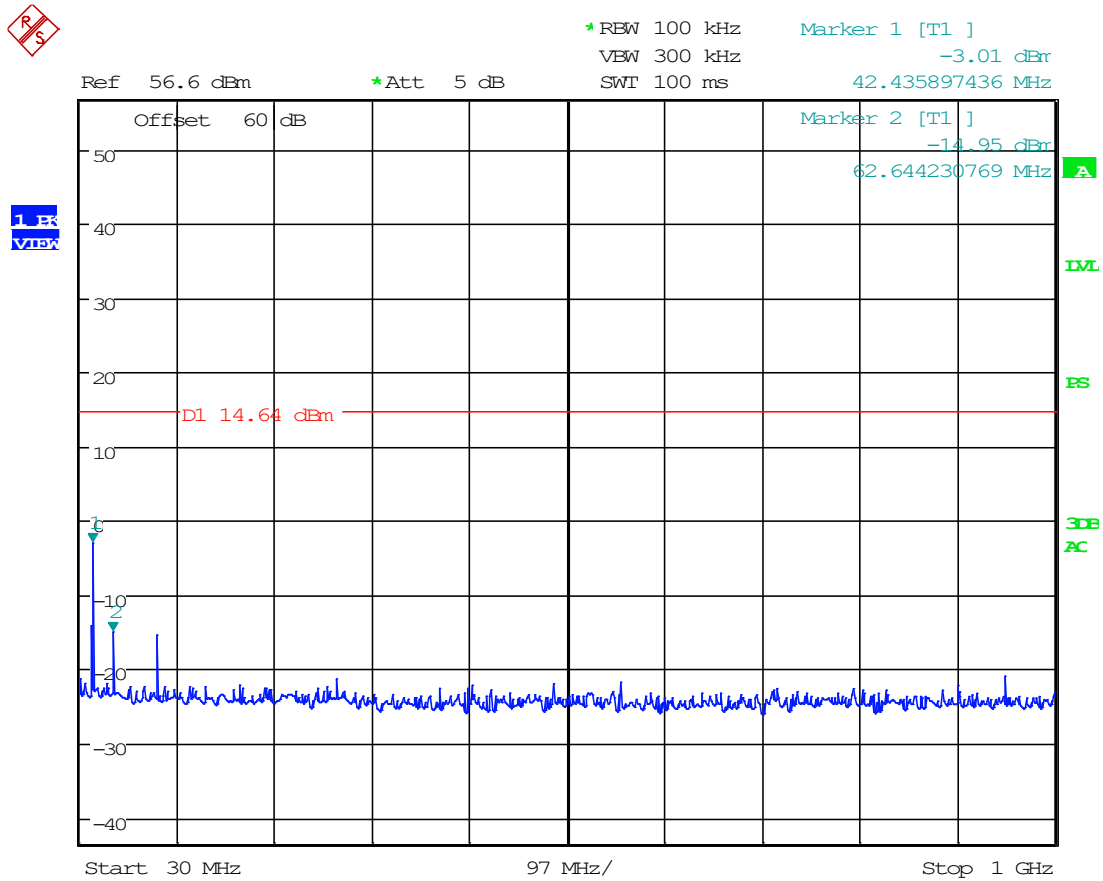
Date: 3.FEB.2025 14:43:32

### 8.3.26 Conducted Emissions, 150kHz- 30MHz, 21.22 MHz



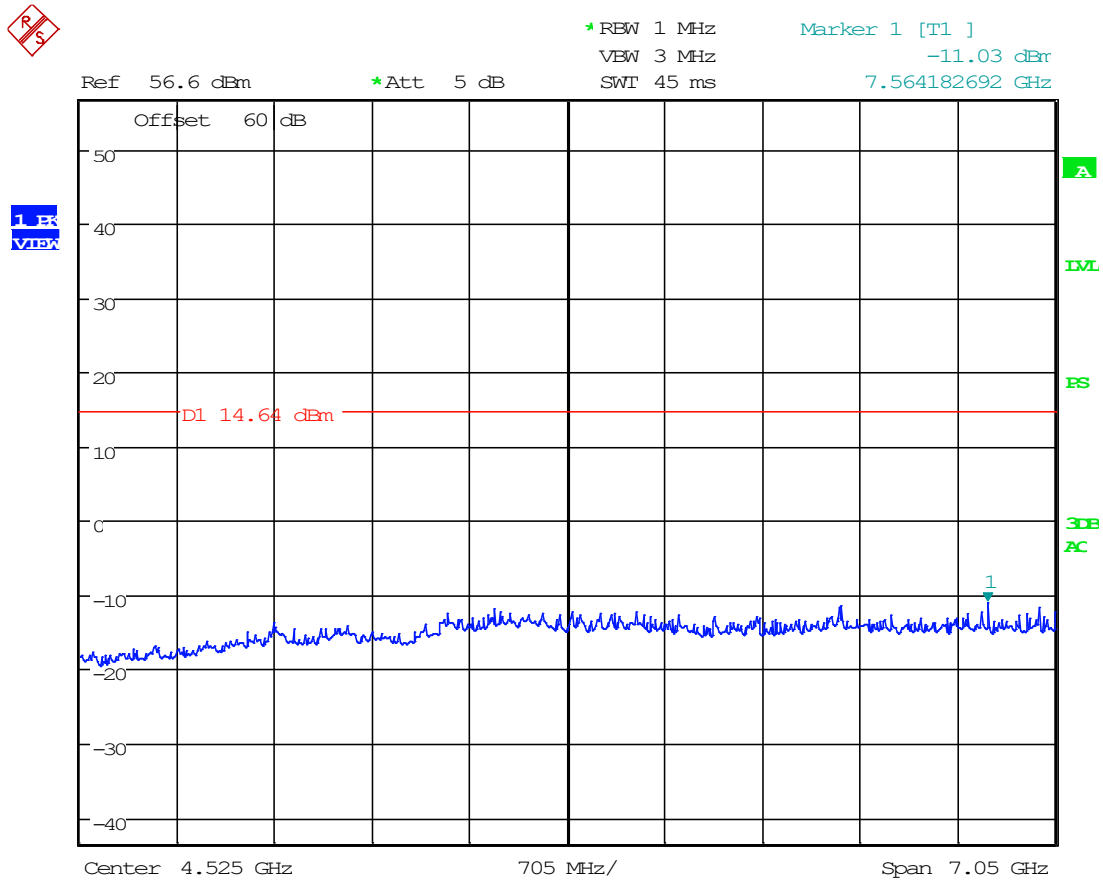
Date: 3.FEB.2025 15:08:12

### 8.3.27 Conducted Emissions, 30MHz- 1GHz, 21.22 MHz



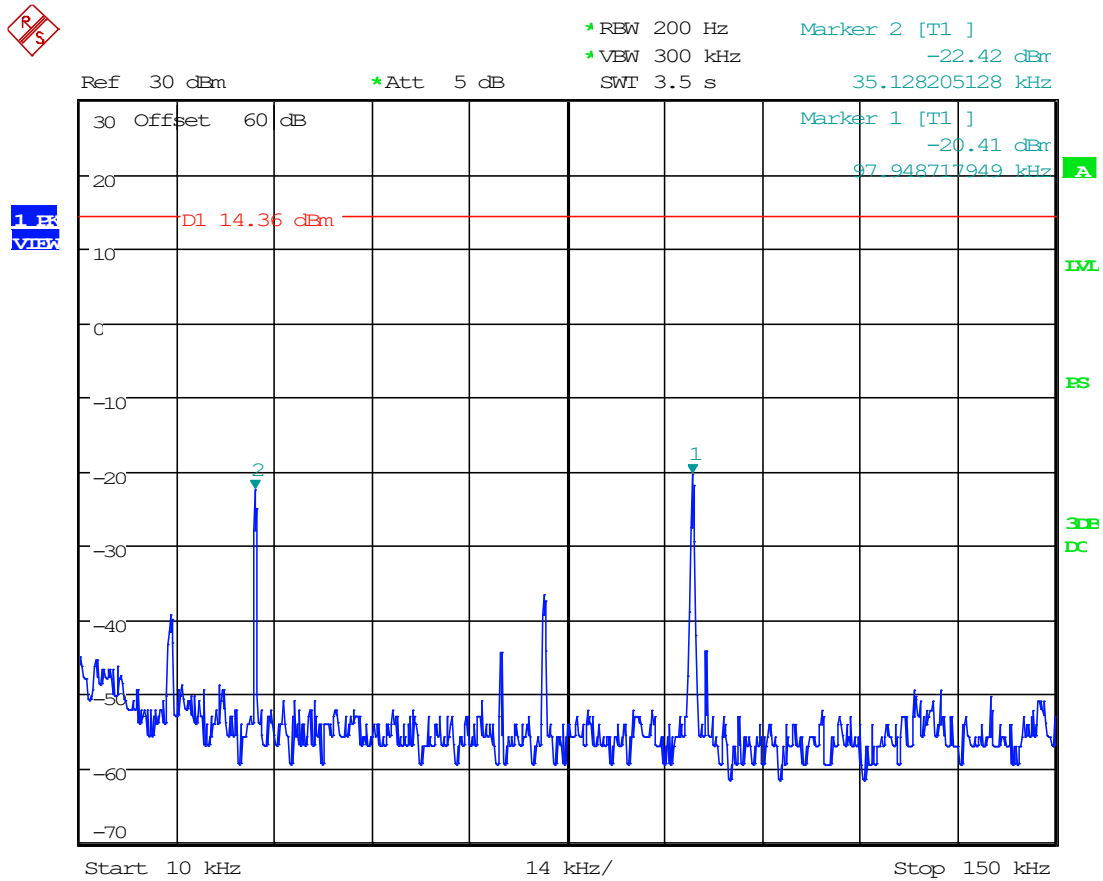
Date: 3.FEB.2025 15:24:19

### 8.3.28 Conducted Emissions, Above 1GHz, 21.22 MHz



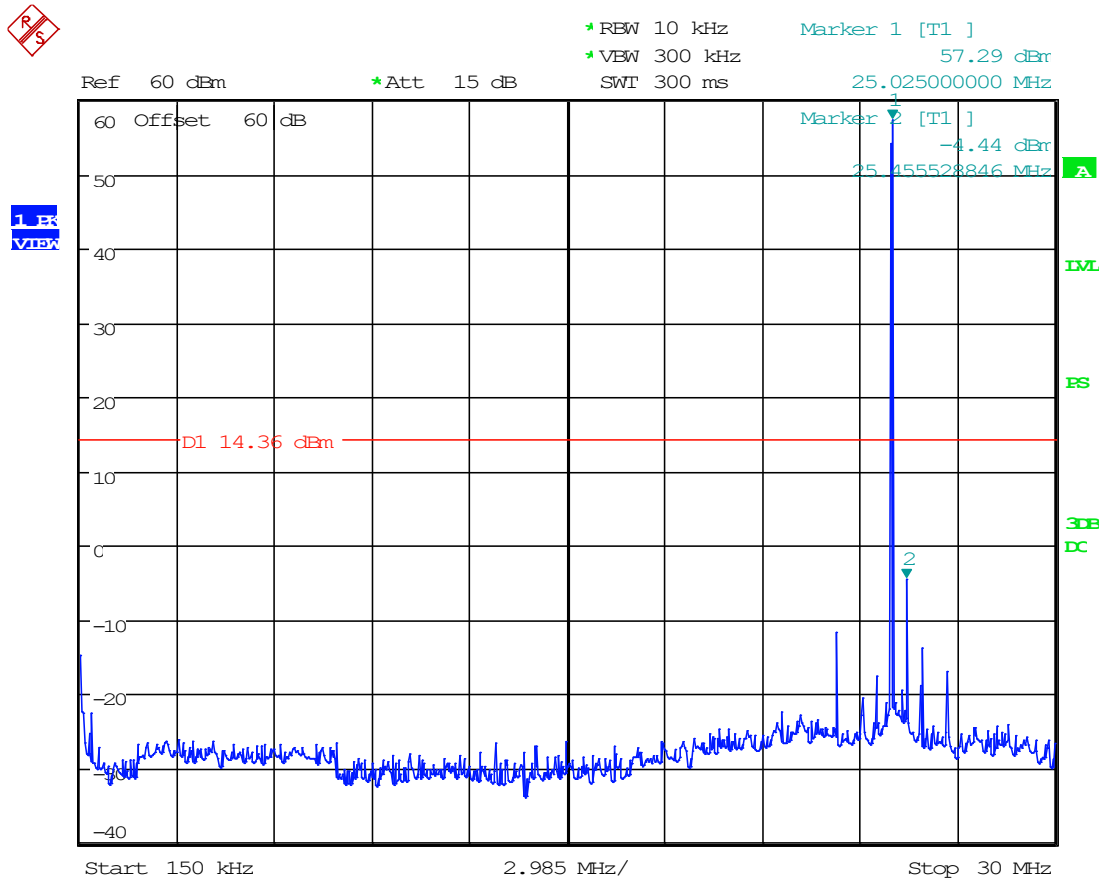
Date: 3.FEB.2025 15:37:04

### 8.3.29 Conducted Emissions, 10kHz- 150kHz, 24.99 MHz



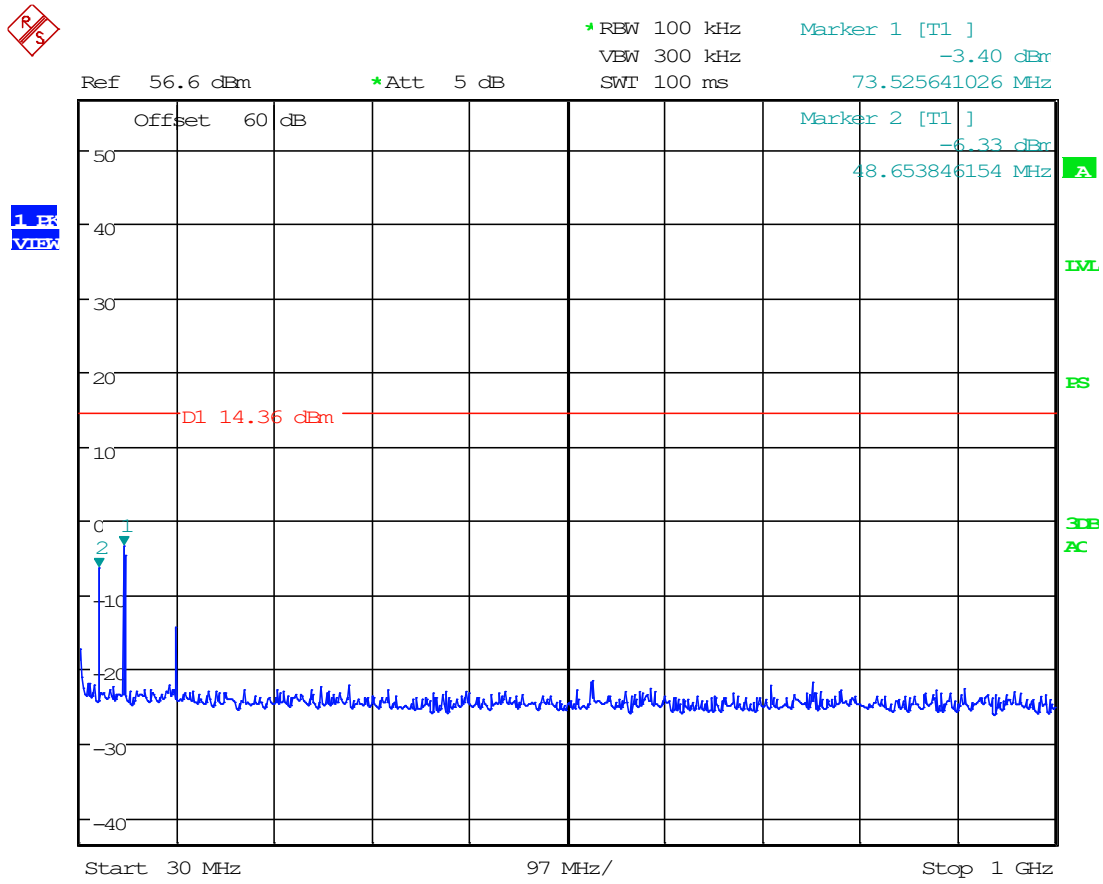
Date: 3.FEB.2025 14:54:29

### 8.3.30 Conducted Emissions, 150kHz- 30MHz, 24.99 MHz



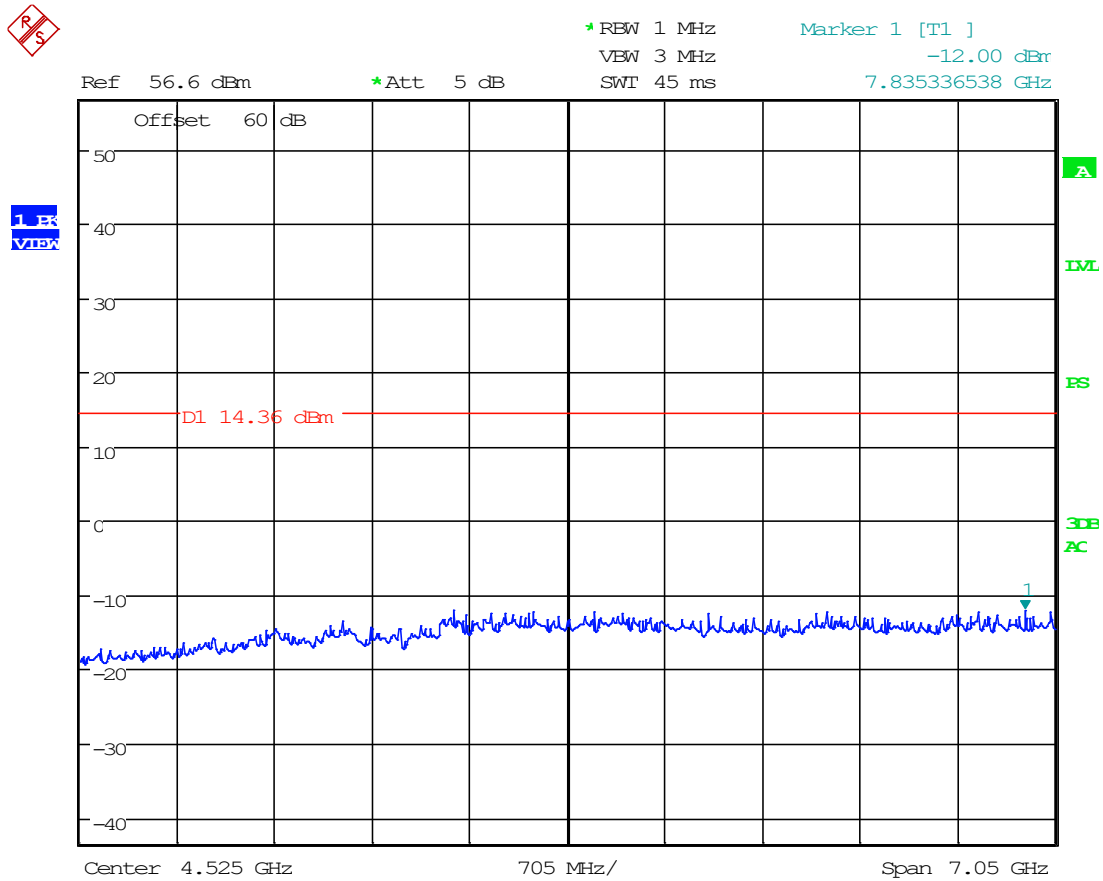
Date: 3.FEB.2025 15:09:18

### 8.3.31 Conducted Emissions, 30MHz- 1GHz, 24.99 MHz



Date: 3.FEB.2025 15:25:28

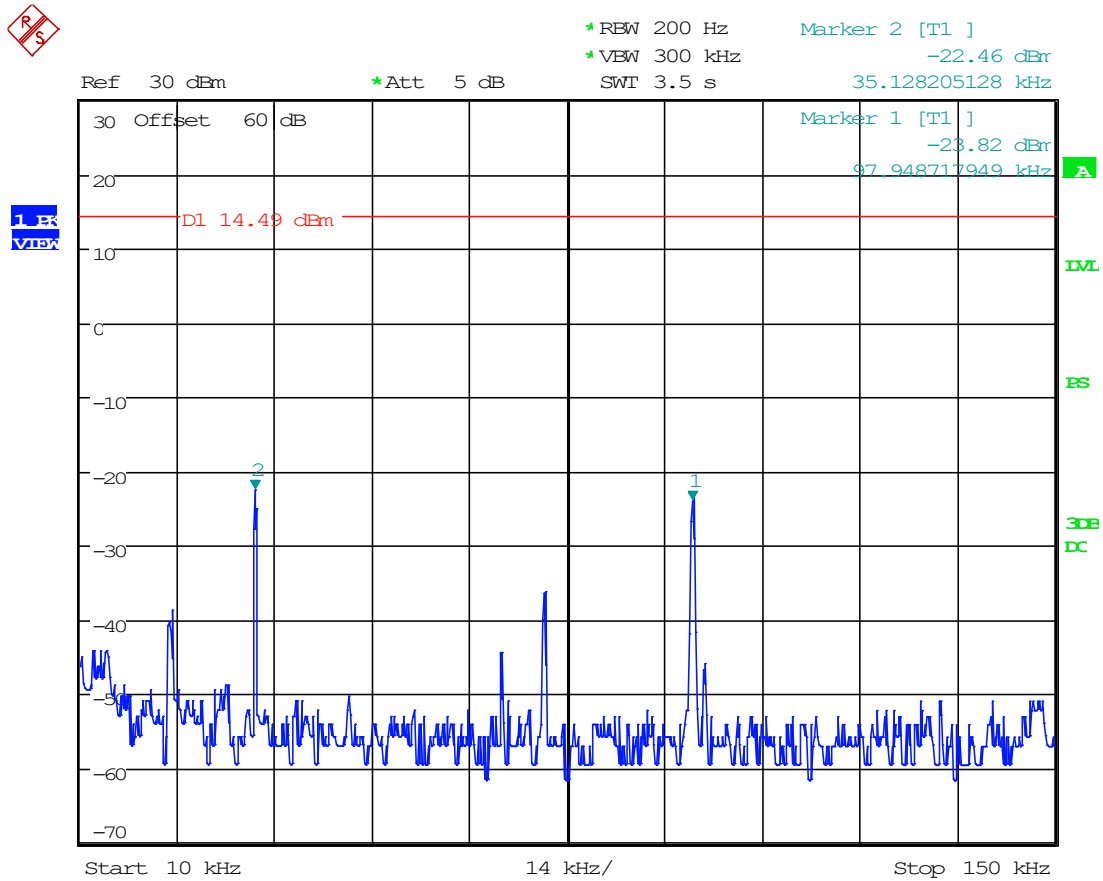
### 8.3.32 Conducted Emissions, Above 1GHz, 24.99 MHz



Date: 3.FEB.2025 15:37:54

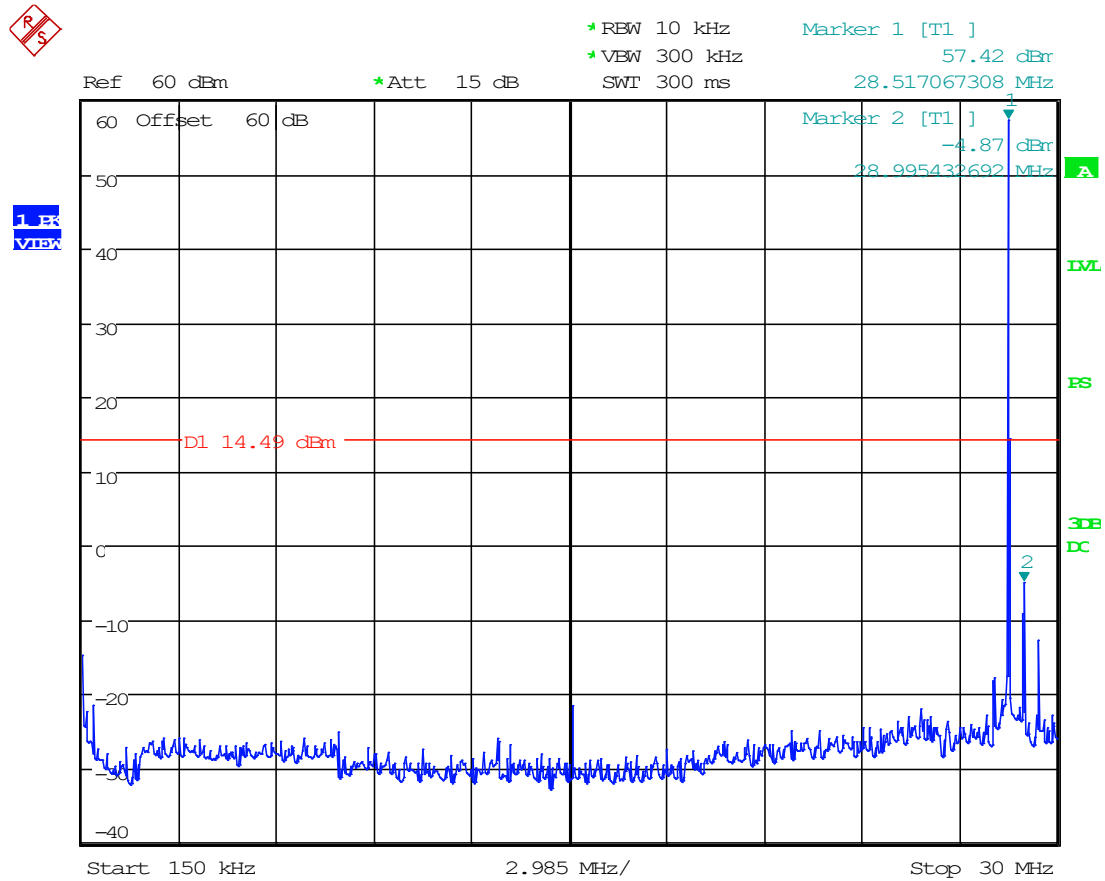


### 8.3.33 Conducted Emissions, 10kHz- 150kHz, 28.5 MHz



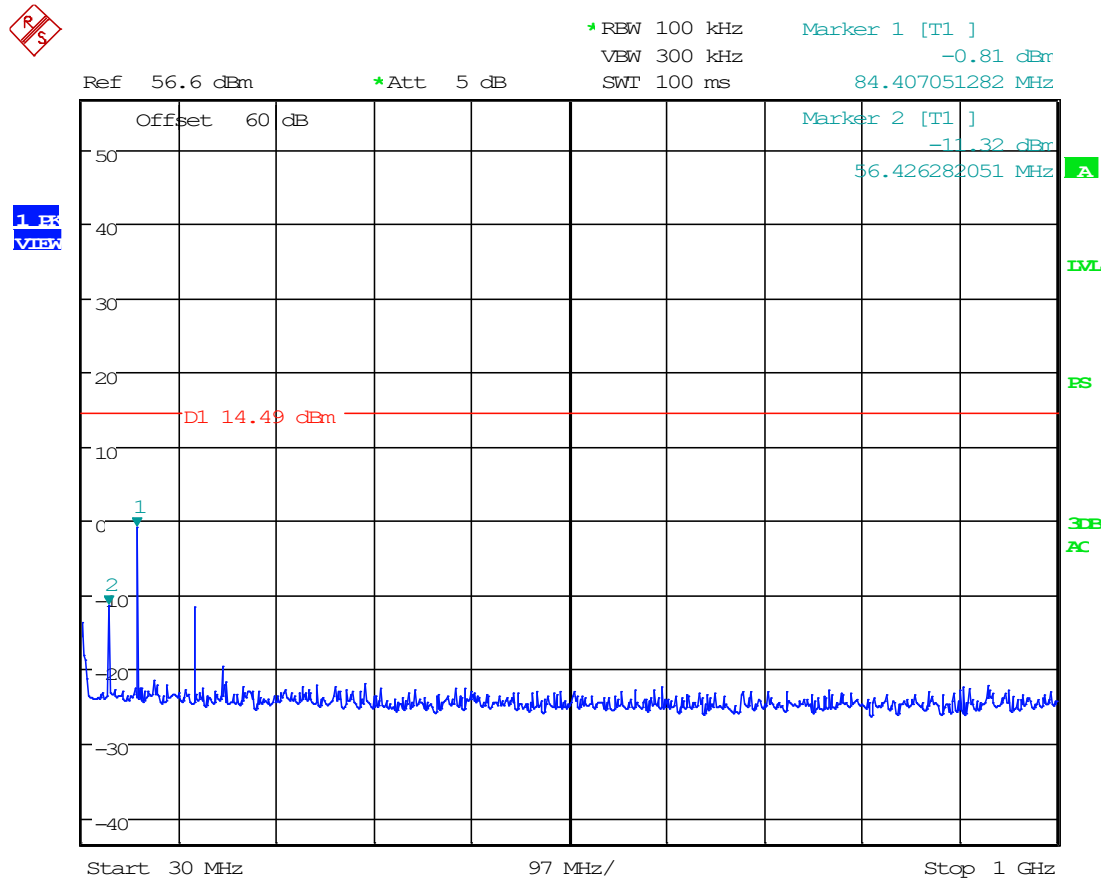
Date: 3.FEB.2025 14:55:35

### 8.3.34 Conducted Emissions, 150kHz- 30MHz, 28.5 MHz



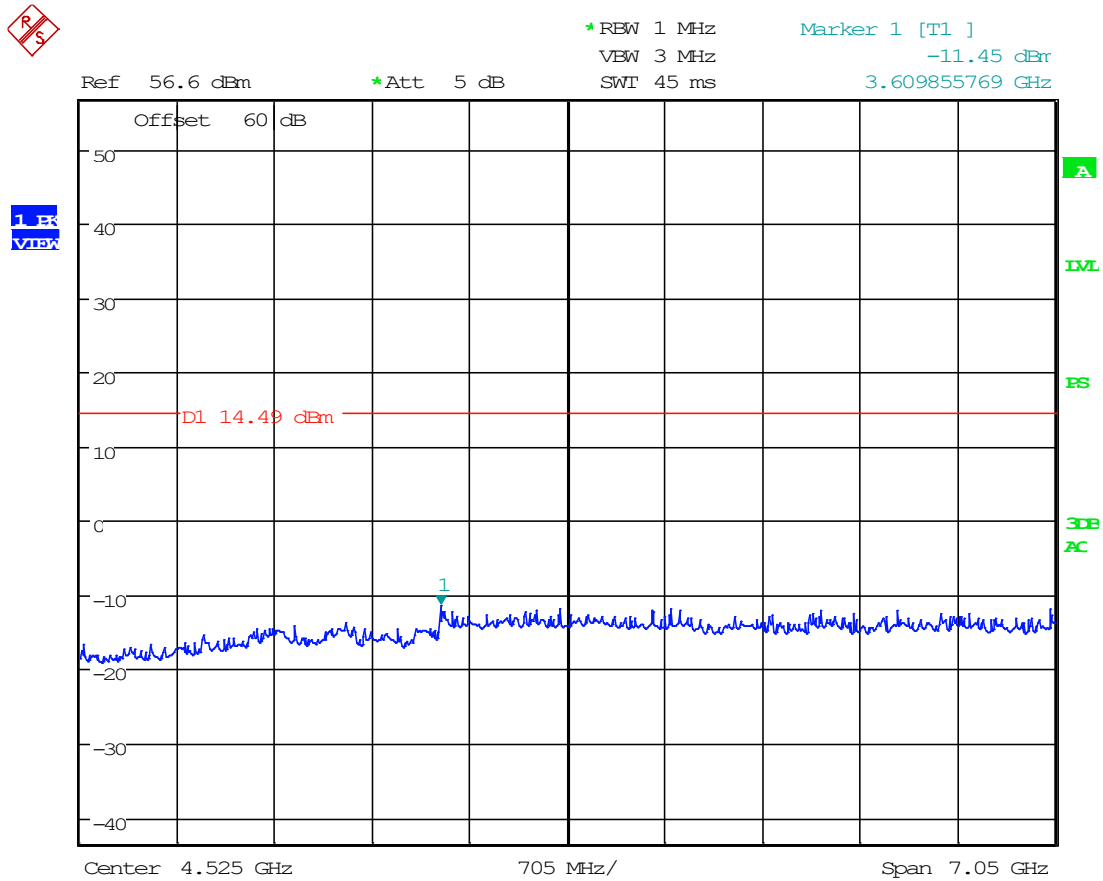
Date: 3.FEB.2025 15:10:23

### 8.3.35 Conducted Emissions, 30MHz- 1GHz, 28.5 MHz



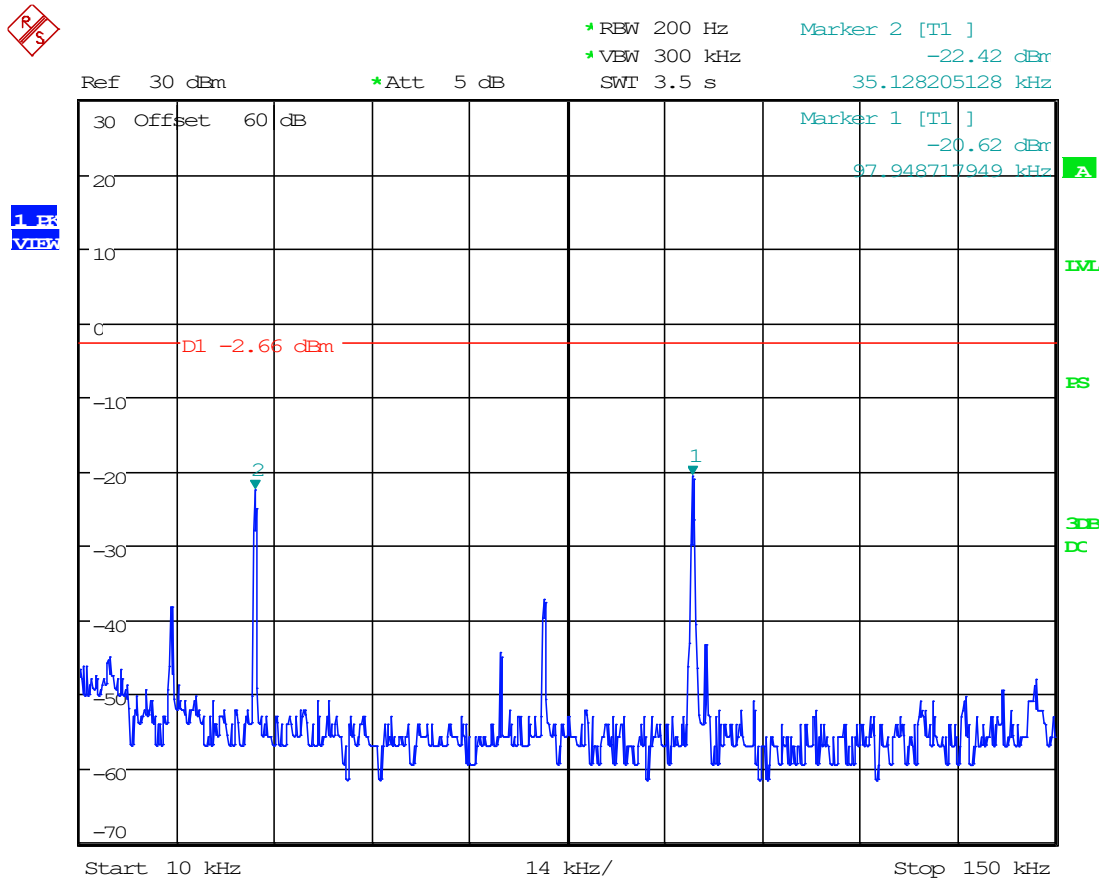
Date: 3.FEB.2025 15:26:18

### 8.3.36 Conducted Emissions, Above 1GHz, 28.5 MHz



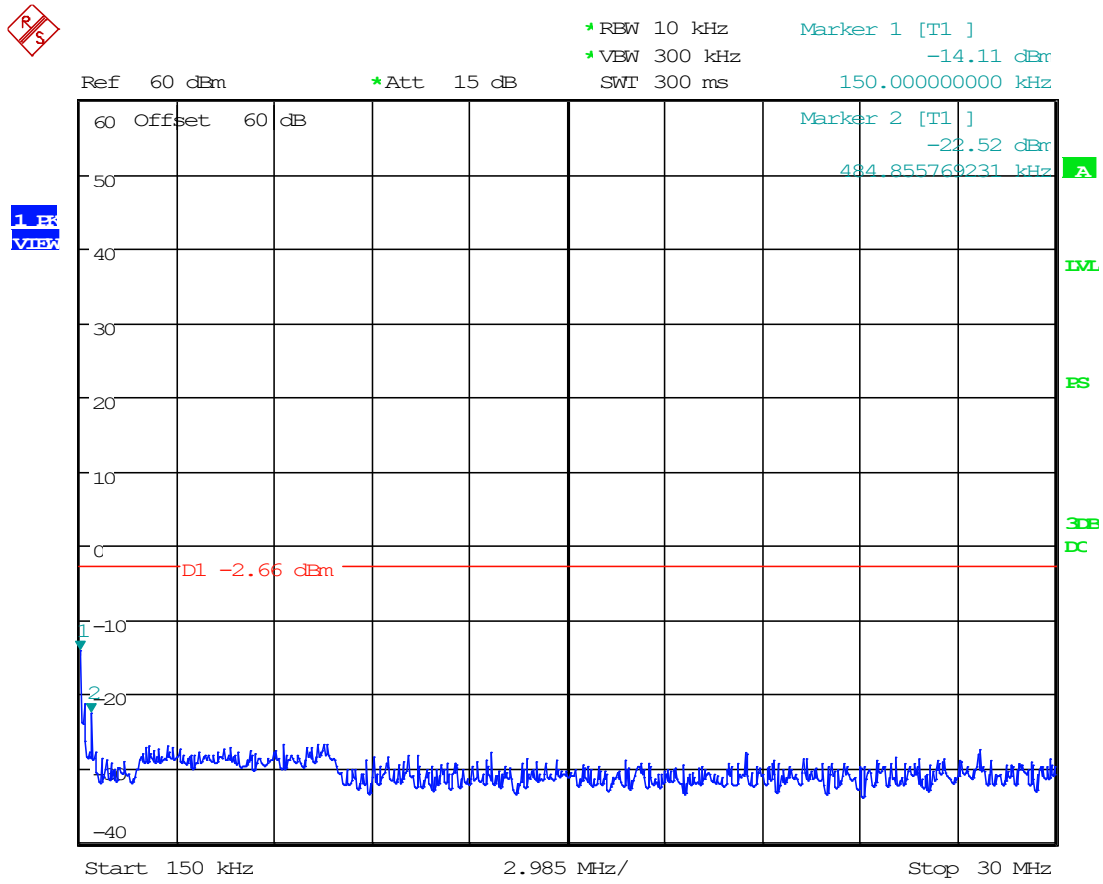
Date: 3.FEB.2025 15:38:50

### 8.3.37 Conducted Emissions, 10kHz- 150kHz, 52 MHz



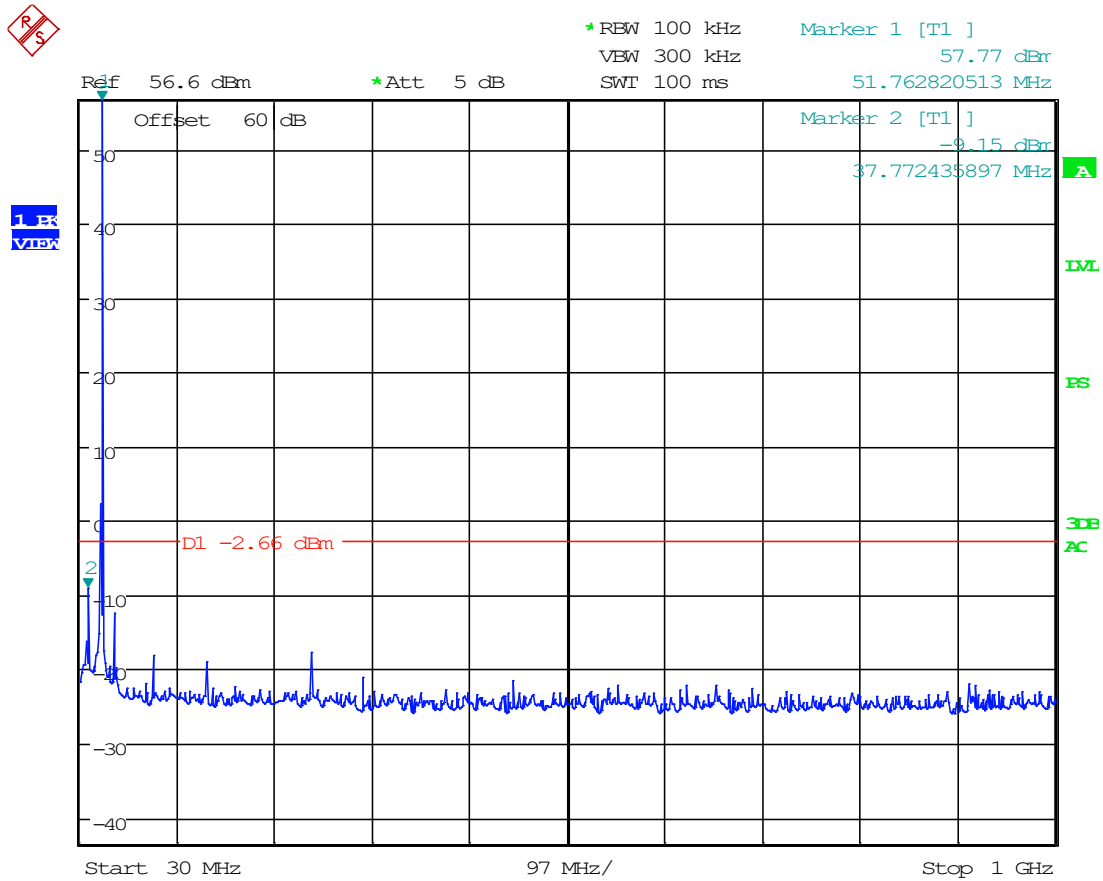
Date: 3.FEB.2025 14:56:52

### 8.3.38 Conducted Emissions, 150kHz- 30MHz, 52 MHz



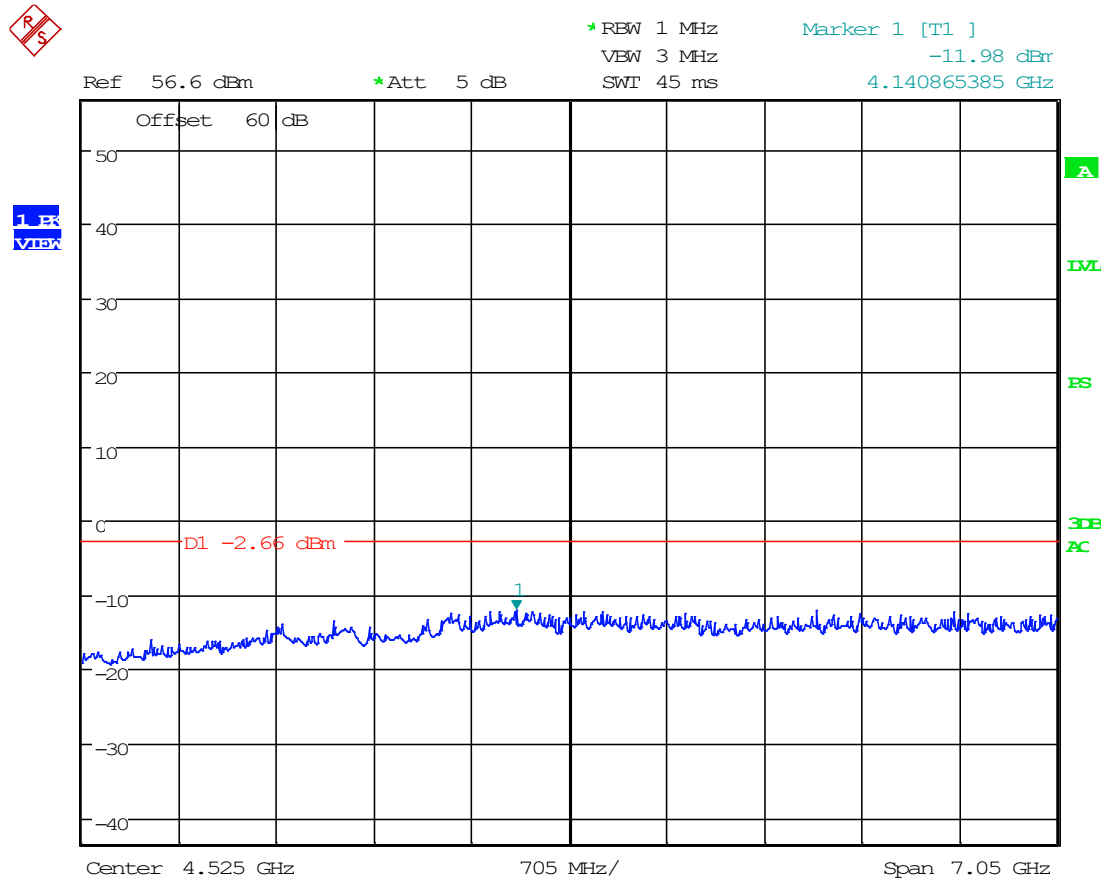
Date: 3.FEB.2025 15:11:35

### 8.3.39 Conducted Emissions, 30MHz- 1GHz, 52 MHz



Date: 3.FEB.2025 15:29:25

### 8.3.40 Conducted Emissions, Above 1GHz, 52 MHz



Date: 3.FEB.2025 15:39:37

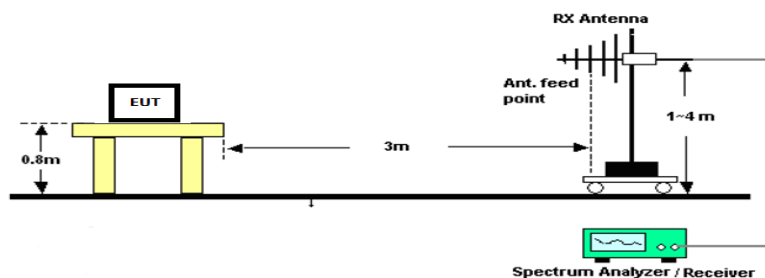


## 8.4 Strength of Radiated Spurious Emissions

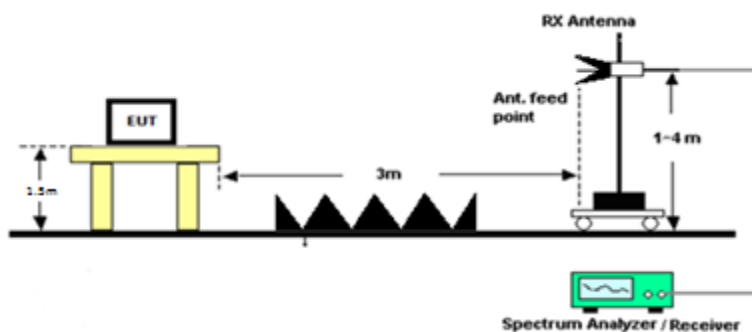
Limits from FCC Parts 2.1053, and 97.307(d)(e); and test procedure from ANSI/ TIA 603-C:2004 & ANSI C63.4-2003

**Requirements:** The FCC Limits for spurious emissions of a transmitting operating on and above 50 MHz, the RF spurious emissions must be at least 60 dB below the mean power of the fundamental.

### Radiated Test Setup, 30 – 1000 MHz



### Radiated Test Setup, Above 1000 MHz



## Radiated Emissions, Tabular Data

### 8.4.1 Radiated Emissions, 1.87 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 1.870                 | 3.74                     | PK       | 23.70                | V                | -0.67          | 11.30                            | 3.00         | 34.33                   | -63.05    | 14.36                | 77.41       |
| 1.870                 | 5.61                     | PK       | 18.00                | V                | -0.67          | 11.04                            | 3.00         | 28.37                   | -69.01    | 14.36                | 83.37       |
| 1.870                 | 7.48                     | PK       | 14.90                | V                | -0.67          | 10.80                            | 3.00         | 25.03                   | -72.34    | 14.36                | 86.70       |
| 1.870                 | 9.35                     | PK       | 12.30                | V                | -0.67          | 10.64                            | 3.00         | 22.27                   | -75.11    | 14.36                | 89.47       |
| 1.870                 | 11.22                    | PK       | 11.70                | V                | -0.67          | 10.60                            | 3.00         | 21.63                   | -75.75    | 14.36                | 90.11       |
| 1.870                 | 13.09                    | PK       | 10.20                | V                | -0.67          | 10.60                            | 3.00         | 20.13                   | -77.25    | 14.36                | 91.61       |
| 1.870                 | 14.96                    | PK       | 9.40                 | V                | -0.67          | 10.50                            | 3.00         | 19.23                   | -78.14    | 14.36                | 92.50       |
| 1.870                 | 16.83                    | PK       | 9.60                 | V                | -0.67          | 10.32                            | 3.00         | 19.25                   | -78.13    | 14.36                | 92.49       |
| 1.870                 | 18.70                    | PK       | 9.80                 | V                | -0.67          | 10.20                            | 3.00         | 19.33                   | -78.05    | 14.36                | 92.41       |

## 8.4.2 Radiated Emissions, 3.65 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 3.650                 | 7.30                     | PK       | 26.50                | V                | -0.67          | 10.84                            | 3.00         | 36.67                   | -60.71    | 14.36                | 75.07       |
| 3.650                 | 10.95                    | PK       | 16.70                | V                | -0.67          | 10.61                            | 3.00         | 26.64                   | -70.74    | 14.36                | 85.10       |
| 3.650                 | 14.60                    | PK       | 10.10                | V                | -0.67          | 10.54                            | 3.00         | 19.97                   | -77.41    | 14.36                | 91.77       |
| 3.650                 | 18.25                    | PK       | 10.50                | V                | -0.67          | 10.20                            | 3.00         | 20.03                   | -77.35    | 14.36                | 91.71       |
| 3.650                 | 21.90                    | PK       | 8.80                 | V                | -0.67          | 9.81                             | 3.00         | 17.94                   | -79.44    | 14.36                | 93.80       |
| 3.650                 | 25.55                    | PK       | 11.30                | V                | -0.67          | 9.19                             | 3.00         | 19.82                   | -77.56    | 14.36                | 91.92       |
| 3.650                 | 29.20                    | PK       | 14.30                | V                | -0.67          | 8.46                             | 3.00         | 22.09                   | -75.29    | 14.36                | 89.65       |
| 3.650                 | 32.85                    | PK       | 12.70                | H                | -0.65          | 13.39                            | 3.00         | 25.44                   | -71.94    | 14.36                | 86.30       |
| 3.650                 | 32.85                    | PK       | 25.70                | V                | -0.65          | 13.39                            | 3.00         | 38.44                   | -58.94    | 14.36                | 73.30       |
| 3.650                 | 36.50                    | PK       | 12.50                | H                | -0.68          | 13.40                            | 3.00         | 25.22                   | -72.15    | 14.36                | 86.51       |
| 3.650                 | 36.50                    | PK       | 21.00                | V                | -0.68          | 13.40                            | 3.00         | 33.72                   | -63.65    | 14.36                | 78.01       |

### 8.4.3 Radiated Emissions, 7.19 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 7.190                 | 14.38                    | PK       | 17.60                | V                | -0.67          | 10.56                            | 3.00         | 27.49                   | -69.89    | 14.36                | 84.25       |
| 7.190                 | 21.57                    | PK       | 16.30                | V                | -0.67          | 9.84                             | 3.00         | 25.47                   | -71.90    | 14.36                | 86.26       |
| 7.190                 | 28.76                    | PK       | 20.10                | V                | -0.67          | 8.55                             | 3.00         | 27.98                   | -69.40    | 14.36                | 83.76       |
| 7.190                 | 35.95                    | PK       | 17.80                | H                | -0.67          | 13.40                            | 3.00         | 30.53                   | -66.85    | 14.36                | 81.21       |
| 7.190                 | 35.95                    | PK       | 33.70                | V                | -0.67          | 13.40                            | 3.00         | 46.43                   | -50.95    | 14.36                | 65.31       |
| 7.190                 | 43.14                    | PK       | 11.70                | H                | -0.74          | 12.69                            | 3.00         | 23.65                   | -73.73    | 14.36                | 88.09       |
| 7.190                 | 43.14                    | PK       | 20.20                | V                | -0.74          | 12.69                            | 3.00         | 32.15                   | -65.23    | 14.36                | 79.59       |
| 7.190                 | 50.33                    | PK       | 12.40                | H                | -0.82          | 10.90                            | 3.00         | 22.48                   | -74.90    | 14.36                | 89.26       |
| 7.190                 | 50.33                    | PK       | 20.20                | V                | -0.82          | 10.90                            | 3.00         | 30.28                   | -67.10    | 14.36                | 81.46       |
| 7.190                 | 57.52                    | PK       | 14.00                | H                | -0.89          | 8.29                             | 3.00         | 21.40                   | -75.97    | 14.36                | 90.33       |
| 7.190                 | 57.52                    | PK       | 19.40                | V                | -0.89          | 8.29                             | 3.00         | 26.80                   | -70.57    | 14.36                | 84.93       |
| 7.190                 | 64.71                    | PK       | 11.50                | H                | -0.95          | 6.23                             | 3.00         | 16.78                   | -80.60    | 14.36                | 94.96       |
| 7.190                 | 64.71                    | PK       | 20.30                | V                | -0.95          | 6.23                             | 3.00         | 25.58                   | -71.80    | 14.36                | 86.16       |
| 7.190                 | 71.90                    | PK       | 12.60                | H                | -1.01          | 6.19                             | 3.00         | 17.78                   | -79.59    | 14.36                | 93.95       |
| 7.190                 | 71.90                    | PK       | 25.00                | V                | -1.01          | 6.19                             | 3.00         | 30.18                   | -67.19    | 14.36                | 81.55       |

#### 8.4.4 Radiated Emissions, 10.125 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 10.125                | 20.250                   | PK       | 14.00                | V                | -0.63          | 10.05                            | 3.00         | 23.42                   | -73.96    | 14.36                | 88.32       |
| 10.125                | 30.375                   | PK       | 23.40                | H                | -0.63          | 13.20                            | 3.00         | 35.97                   | -61.41    | 14.36                | 75.77       |
| 10.125                | 30.375                   | PK       | 47.60                | V                | -0.63          | 13.20                            | 3.00         | 60.17                   | -37.21    | 14.36                | 51.57       |
| 10.125                | 40.500                   | PK       | 12.30                | H                | -0.71          | 13.10                            | 3.00         | 24.69                   | -72.68    | 14.36                | 87.04       |
| 10.125                | 40.500                   | PK       | 26.50                | V                | -0.71          | 13.10                            | 3.00         | 38.89                   | -58.48    | 14.36                | 72.84       |
| 10.125                | 50.625                   | PK       | 12.20                | H                | -0.83          | 10.81                            | 3.00         | 22.19                   | -75.19    | 14.36                | 89.55       |
| 10.125                | 50.625                   | PK       | 27.30                | V                | -0.83          | 10.81                            | 3.00         | 37.29                   | -60.09    | 14.36                | 74.45       |
| 10.125                | 60.750                   | PK       | 16.40                | H                | -0.92          | 7.18                             | 3.00         | 22.66                   | -74.72    | 14.36                | 89.08       |
| 10.125                | 60.750                   | PK       | 22.70                | V                | -0.92          | 7.18                             | 3.00         | 28.96                   | -68.42    | 14.36                | 82.78       |
| 10.125                | 70.875                   | PK       | 15.00                | H                | -1.00          | 6.09                             | 3.00         | 20.09                   | -77.29    | 14.36                | 91.65       |
| 10.125                | 70.875                   | PK       | 25.50                | V                | -1.00          | 6.09                             | 3.00         | 30.59                   | -66.79    | 14.36                | 81.15       |
| 10.125                | 81.000                   | PK       | 17.80                | H                | -1.09          | 8.60                             | 3.00         | 25.31                   | -72.06    | 14.36                | 86.42       |
| 10.125                | 81.000                   | PK       | 25.60                | V                | -1.09          | 8.60                             | 3.00         | 33.11                   | -64.26    | 14.36                | 78.62       |
| 10.125                | 91.125                   | PK       | 24.10                | H                | -1.14          | 10.51                            | 3.00         | 33.47                   | -63.91    | 14.36                | 78.27       |
| 10.125                | 91.125                   | PK       | 23.30                | V                | -1.14          | 10.51                            | 3.00         | 32.67                   | -64.71    | 14.36                | 79.07       |
| 10.125                | 101.250                  | PK       | 21.80                | H                | -1.17          | 10.80                            | 3.00         | 31.44                   | -65.94    | 14.36                | 80.30       |
| 10.125                | 101.250                  | PK       | 21.50                | V                | -1.17          | 10.80                            | 3.00         | 31.14                   | -66.24    | 14.36                | 80.60       |

## 8.4.5 Radiated Emissions, 14.17 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 14.17                 | 28.34                    | PK       | 37.50                | V                | -0.67          | 8.63                             | 3.00         | 45.46                   | -51.92    | 14.36                | 66.28       |
| 14.17                 | 42.51                    | PK       | 25.00                | H                | -0.73          | 12.85                            | 3.00         | 37.12                   | -60.26    | 14.36                | 74.62       |
| 14.17                 | 42.51                    | PK       | 41.70                | V                | -0.73          | 12.85                            | 3.00         | 53.82                   | -43.56    | 14.36                | 57.92       |
| 14.17                 | 56.68                    | PK       | 17.10                | H                | -0.88          | 8.63                             | 3.00         | 24.85                   | -72.53    | 14.36                | 86.89       |
| 14.17                 | 56.68                    | PK       | 22.20                | V                | -0.88          | 8.63                             | 3.00         | 29.95                   | -67.43    | 14.36                | 81.79       |
| 14.17                 | 70.85                    | PK       | 21.70                | H                | -1.00          | 6.09                             | 3.00         | 26.79                   | -70.59    | 14.36                | 84.95       |
| 14.17                 | 70.85                    | PK       | 25.80                | V                | -1.00          | 6.09                             | 3.00         | 30.89                   | -66.49    | 14.36                | 80.85       |
| 14.17                 | 85.02                    | PK       | 21.40                | H                | -1.11          | 9.70                             | 3.00         | 29.99                   | -67.39    | 14.36                | 81.75       |
| 14.17                 | 85.02                    | PK       | 24.10                | V                | -1.11          | 9.70                             | 3.00         | 32.69                   | -64.69    | 14.36                | 79.05       |
| 14.17                 | 99.19                    | PK       | 25.20                | H                | -1.16          | 10.90                            | 3.00         | 34.94                   | -62.44    | 14.36                | 76.80       |
| 14.17                 | 99.19                    | PK       | 25.60                | V                | -1.16          | 10.90                            | 3.00         | 35.34                   | -62.04    | 14.36                | 76.40       |
| 14.17                 | 113.36                   | PK       | 21.30                | H                | -1.22          | 10.30                            | 3.00         | 30.38                   | -66.99    | 14.36                | 81.35       |
| 14.17                 | 113.36                   | PK       | 23.00                | V                | -1.22          | 10.30                            | 3.00         | 32.08                   | -65.29    | 14.36                | 79.65       |
| 14.17                 | 127.53                   | PK       | 24.10                | H                | -1.28          | 12.41                            | 3.00         | 35.23                   | -62.15    | 14.36                | 76.51       |
| 14.17                 | 127.53                   | PK       | 23.30                | V                | -1.28          | 12.41                            | 3.00         | 34.43                   | -62.95    | 14.36                | 77.31       |
| 14.17                 | 141.70                   | PK       | 30.60                | H                | -1.35          | 15.77                            | 3.00         | 45.02                   | -52.36    | 14.36                | 66.72       |
| 14.17                 | 141.70                   | PK       | 29.20                | V                | -1.35          | 15.77                            | 3.00         | 43.62                   | -53.76    | 14.36                | 68.12       |

## 8.4.6 Radiated Emissions, 18.12 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 18.12                 | 36.24                    | PK       | 25.20                | H                | -0.67          | 13.40                            | 3.00         | 37.93                   | -59.45    | 14.36                | 73.81       |
| 18.12                 | 36.24                    | PK       | 44.90                | V                | -0.67          | 13.40                            | 3.00         | 57.63                   | -39.75    | 14.36                | 54.11       |
| 18.12                 | 54.36                    | PK       | 17.90                | H                | -0.86          | 9.46                             | 3.00         | 26.50                   | -70.88    | 14.36                | 85.24       |
| 18.12                 | 54.36                    | PK       | 17.50                | V                | -0.86          | 9.46                             | 3.00         | 26.10                   | -71.28    | 14.36                | 85.64       |
| 18.12                 | 72.48                    | PK       | 21.70                | H                | -1.01          | 6.34                             | 3.00         | 27.03                   | -70.35    | 14.36                | 84.71       |
| 18.12                 | 72.48                    | PK       | 26.60                | V                | -1.01          | 6.34                             | 3.00         | 31.93                   | -65.45    | 14.36                | 79.81       |
| 18.12                 | 90.60                    | PK       | 28.80                | H                | -1.14          | 10.46                            | 3.00         | 38.12                   | -59.26    | 14.36                | 73.62       |
| 18.12                 | 90.60                    | PK       | 30.70                | V                | -1.14          | 10.46                            | 3.00         | 40.02                   | -57.36    | 14.36                | 71.72       |
| 18.12                 | 108.72                   | PK       | 28.80                | H                | -1.19          | 10.43                            | 3.00         | 38.03                   | -59.34    | 14.36                | 73.70       |
| 18.12                 | 108.72                   | PK       | 23.80                | V                | -1.19          | 10.43                            | 3.00         | 33.03                   | -64.34    | 14.36                | 78.70       |
| 18.12                 | 126.84                   | PK       | 25.50                | H                | -1.28          | 12.25                            | 3.00         | 36.47                   | -60.90    | 14.36                | 75.26       |
| 18.12                 | 126.84                   | PK       | 27.50                | V                | -1.28          | 12.25                            | 3.00         | 38.47                   | -58.90    | 14.36                | 73.26       |
| 18.12                 | 144.96                   | PK       | 29.20                | H                | -1.37          | 16.29                            | 3.00         | 44.12                   | -53.25    | 14.36                | 67.61       |
| 18.12                 | 144.96                   | PK       | 26.50                | V                | -1.37          | 16.29                            | 3.00         | 41.42                   | -55.95    | 14.36                | 70.31       |
| 18.12                 | 163.08                   | PK       | 21.80                | H                | -1.47          | 16.69                            | 3.00         | 37.02                   | -60.36    | 14.36                | 74.72       |
| 18.12                 | 163.08                   | PK       | 18.60                | V                | -1.47          | 16.69                            | 3.00         | 33.82                   | -63.56    | 14.36                | 77.92       |
| 18.12                 | 181.20                   | PK       | 39.40                | H                | -1.56          | 13.56                            | 3.00         | 51.40                   | -45.98    | 14.36                | 60.34       |
| 18.12                 | 181.20                   | PK       | 30.80                | V                | -1.56          | 13.56                            | 3.00         | 42.80                   | -54.58    | 14.36                | 68.94       |

## 8.4.7 Radiated Emissions, 21.22 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 21.22                 | 42.44                    | PK       | 26.30                | H                | -0.73          | 12.87                            | 3.00         | 38.44                   | -58.94    | 14.36                | 73.30       |
| 21.22                 | 42.44                    | PK       | 44.10                | V                | -0.73          | 12.87                            | 3.00         | 56.24                   | -41.14    | 14.36                | 55.50       |
| 21.22                 | 63.66                    | PK       | 18.10                | H                | -0.94          | 6.40                             | 3.00         | 23.56                   | -73.81    | 14.36                | 88.17       |
| 21.22                 | 63.66                    | PK       | 31.50                | V                | -0.94          | 6.40                             | 3.00         | 36.96                   | -60.41    | 14.36                | 74.77       |
| 21.22                 | 84.88                    | PK       | 23.60                | H                | -1.11          | 9.66                             | 3.00         | 32.15                   | -65.22    | 14.36                | 79.58       |
| 21.22                 | 84.88                    | PK       | 29.70                | V                | -1.11          | 9.66                             | 3.00         | 38.25                   | -59.12    | 14.36                | 73.48       |
| 21.22                 | 106.10                   | PK       | 20.90                | H                | -1.18          | 10.59                            | 3.00         | 30.31                   | -67.07    | 14.36                | 81.43       |
| 21.22                 | 106.10                   | PK       | 28.80                | V                | -1.18          | 10.59                            | 3.00         | 38.21                   | -59.17    | 14.36                | 73.53       |
| 21.22                 | 127.32                   | PK       | 26.30                | H                | -1.28          | 12.36                            | 3.00         | 37.38                   | -59.99    | 14.36                | 74.35       |
| 21.22                 | 127.32                   | PK       | 26.90                | V                | -1.28          | 12.36                            | 3.00         | 37.98                   | -59.39    | 14.36                | 73.75       |
| 21.22                 | 148.54                   | PK       | 25.40                | H                | -1.39          | 16.70                            | 3.00         | 40.71                   | -56.67    | 14.36                | 71.03       |
| 21.22                 | 148.54                   | PK       | 26.60                | V                | -1.39          | 16.70                            | 3.00         | 41.91                   | -55.47    | 14.36                | 69.83       |
| 21.22                 | 169.76                   | PK       | 49.80                | H                | -1.52          | 15.75                            | 3.00         | 64.03                   | -33.35    | 14.36                | 47.71       |
| 21.22                 | 169.76                   | PK       | 38.40                | V                | -1.52          | 15.75                            | 3.00         | 52.63                   | -44.75    | 14.36                | 59.11       |
| 21.22                 | 190.98                   | PK       | 43.60                | H                | -1.59          | 14.20                            | 3.00         | 56.20                   | -41.17    | 14.36                | 55.53       |
| 21.22                 | 190.98                   | PK       | 39.10                | V                | -1.59          | 14.20                            | 3.00         | 51.70                   | -45.67    | 14.36                | 60.03       |
| 21.22                 | 212.20                   | PK       | 32.20                | H                | -1.65          | 11.34                            | 3.00         | 41.90                   | -55.48    | 14.36                | 69.84       |
| 21.22                 | 212.20                   | PK       | 22.20                | V                | -1.65          | 11.34                            | 3.00         | 31.90                   | -65.48    | 14.36                | 79.84       |



## 8.4.8 Radiated Emissions, 24.99 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 24.99                 | 49.98                    | PK       | 25.30                | H                | -0.82          | 11.01                            | 3.00         | 35.49                   | -61.89    | 14.36                | 76.25       |
| 24.99                 | 49.98                    | PK       | 33.20                | V                | -0.82          | 11.01                            | 3.00         | 43.39                   | -53.99    | 14.36                | 68.35       |
| 24.99                 | 74.97                    | PK       | 24.50                | H                | -1.03          | 6.89                             | 3.00         | 30.36                   | -67.02    | 14.36                | 81.38       |
| 24.99                 | 74.97                    | PK       | 36.40                | V                | -1.03          | 6.89                             | 3.00         | 42.26                   | -55.12    | 14.36                | 69.48       |
| 24.99                 | 99.96                    | PK       | 32.90                | H                | -1.16          | 10.90                            | 3.00         | 42.64                   | -54.74    | 14.36                | 69.10       |
| 24.99                 | 99.96                    | PK       | 33.00                | V                | -1.16          | 10.90                            | 3.00         | 42.74                   | -54.64    | 14.36                | 69.00       |
| 24.99                 | 124.95                   | PK       | 31.90                | H                | -1.27          | 11.69                            | 3.00         | 42.32                   | -55.06    | 14.36                | 69.42       |
| 24.99                 | 124.95                   | PK       | 37.40                | V                | -1.27          | 11.69                            | 3.00         | 47.82                   | -49.56    | 14.36                | 63.92       |
| 24.99                 | 149.94                   | PK       | 39.60                | H                | -1.40          | 16.79                            | 3.00         | 54.99                   | -42.38    | 14.36                | 56.74       |
| 24.99                 | 149.94                   | PK       | 25.00                | V                | -1.40          | 16.79                            | 3.00         | 40.39                   | -56.98    | 14.36                | 71.34       |
| 24.99                 | 174.93                   | PK       | 42.80                | H                | -1.54          | 14.71                            | 3.00         | 55.97                   | -41.40    | 14.36                | 55.76       |
| 24.99                 | 174.93                   | PK       | 34.30                | V                | -1.54          | 14.71                            | 3.00         | 47.47                   | -49.90    | 14.36                | 64.26       |
| 24.99                 | 199.92                   | PK       | 34.50                | H                | -1.62          | 17.37                            | 3.00         | 50.25                   | -47.13    | 14.36                | 61.49       |
| 24.99                 | 199.92                   | PK       | 27.60                | V                | -1.62          | 17.37                            | 3.00         | 43.35                   | -54.03    | 14.36                | 68.39       |
| 24.99                 | 224.91                   | PK       | 36.40                | H                | -1.72          | 11.10                            | 3.00         | 45.78                   | -51.59    | 14.36                | 65.95       |
| 24.99                 | 224.91                   | PK       | 26.70                | V                | -1.72          | 11.10                            | 3.00         | 36.08                   | -61.29    | 14.36                | 75.65       |
| 24.99                 | 249.90                   | PK       | 34.40                | H                | -1.89          | 12.26                            | 3.00         | 44.77                   | -52.60    | 14.36                | 66.96       |
| 24.99                 | 249.90                   | PK       | 32.30                | V                | -1.89          | 12.26                            | 3.00         | 42.67                   | -54.70    | 14.36                | 69.06       |

## 8.4.9 Radiated Emissions, 28.5 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 28.50                 | 57.00                    | PK       | 31.30                | H                | -0.88          | 8.50                             | 3.00         | 38.92                   | -58.46    | 14.36                | 72.82       |
| 28.50                 | 57.00                    | PK       | 39.20                | V                | -0.88          | 8.50                             | 3.00         | 46.82                   | -50.56    | 14.36                | 64.92       |
| 28.50                 | 85.50                    | PK       | 33.30                | H                | -1.11          | 9.75                             | 3.00         | 41.94                   | -55.44    | 14.36                | 69.80       |
| 28.50                 | 85.50                    | PK       | 33.00                | V                | -1.11          | 9.75                             | 3.00         | 41.64                   | -55.74    | 14.36                | 70.10       |
| 28.50                 | 114.00                   | PK       | 41.60                | H                | -1.22          | 10.30                            | 3.00         | 50.68                   | -46.70    | 14.36                | 61.06       |
| 28.50                 | 114.00                   | PK       | 43.40                | V                | -1.22          | 10.30                            | 3.00         | 52.48                   | -44.90    | 14.36                | 59.26       |
| 28.50                 | 142.50                   | PK       | 35.40                | H                | -1.36          | 15.90                            | 3.00         | 49.95                   | -47.43    | 14.36                | 61.79       |
| 28.50                 | 142.50                   | PK       | 34.40                | V                | -1.36          | 15.90                            | 3.00         | 48.95                   | -48.43    | 14.36                | 62.79       |
| 28.50                 | 171.00                   | PK       | 58.40                | H                | -1.52          | 15.60                            | 3.00         | 72.48                   | -24.90    | 14.36                | 39.26       |
| 28.50                 | 171.00                   | PK       | 48.80                | V                | -1.52          | 15.60                            | 3.00         | 62.88                   | -34.50    | 14.36                | 48.86       |
| 28.50                 | 199.50                   | PK       | 35.10                | H                | -1.62          | 17.20                            | 3.00         | 50.68                   | -46.70    | 14.36                | 61.06       |
| 28.50                 | 199.50                   | PK       | 29.00                | V                | -1.62          | 17.20                            | 3.00         | 44.58                   | -52.80    | 14.36                | 67.16       |
| 28.50                 | 228.00                   | PK       | 34.40                | H                | -1.73          | 11.13                            | 3.00         | 43.80                   | -53.58    | 14.36                | 67.94       |
| 28.50                 | 228.00                   | PK       | 25.30                | V                | -1.73          | 11.13                            | 3.00         | 34.70                   | -62.68    | 14.36                | 77.04       |
| 28.50                 | 256.50                   | PK       | 49.30                | H                | -1.97          | 12.40                            | 3.00         | 59.74                   | -37.64    | 14.36                | 52.00       |
| 28.50                 | 256.50                   | PK       | 29.10                | V                | -1.97          | 12.40                            | 3.00         | 39.54                   | -57.84    | 14.36                | 72.20       |
| 28.50                 | 285.00                   | PK       | 40.90                | H                | -2.07          | 13.53                            | 3.00         | 52.36                   | -45.02    | 14.36                | 59.38       |
| 28.50                 | 285.00                   | PK       | 23.40                | V                | -2.07          | 13.53                            | 3.00         | 34.86                   | -62.52    | 14.36                | 76.88       |

#### 8.4.10 Radiated Emissions, 52 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | Detector | Meter Reading (dBuV) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dBuV/m) | ERP (dBm) | Spurious Limit (dBm) | Margin (dB) |
|-----------------------|--------------------------|----------|----------------------|------------------|----------------|----------------------------------|--------------|-------------------------|-----------|----------------------|-------------|
| 52.00                 | 104.00                   | PK       | 52.60                | H                | -1.18          | 10.70                            | 3.00         | 62.12                   | -35.25    | -2.66                | 32.59       |
| 52.00                 | 104.00                   | PK       | 49.50                | V                | -1.18          | 10.70                            | 3.00         | 59.02                   | -38.35    | -2.66                | 35.69       |
| 52.00                 | 156.00                   | PK       | 46.00                | H                | -1.43          | 17.00                            | 3.00         | 61.57                   | -35.81    | -2.66                | 33.15       |
| 52.00                 | 156.00                   | PK       | 45.00                | V                | -1.43          | 17.00                            | 3.00         | 60.57                   | -36.81    | -2.66                | 34.15       |
| 52.00                 | 208.00                   | PK       | 55.00                | H                | -1.63          | 11.45                            | 3.00         | 64.82                   | -32.56    | -2.66                | 29.90       |
| 52.00                 | 208.00                   | PK       | 39.80                | V                | -1.63          | 11.45                            | 3.00         | 49.62                   | -47.76    | -2.66                | 45.10       |
| 52.00                 | 260.00                   | PK       | 64.80                | H                | -2.01          | 12.50                            | 3.00         | 75.29                   | -22.09    | -2.66                | 19.43       |
| 52.00                 | 260.00                   | PK       | 48.40                | V                | -2.01          | 12.50                            | 3.00         | 58.89                   | -38.49    | -2.66                | 35.83       |
| 52.00                 | 312.00                   | PK       | 58.40                | H                | -2.08          | 14.83                            | 3.00         | 71.15                   | -26.23    | -2.66                | 23.57       |
| 52.00                 | 312.00                   | PK       | 49.10                | V                | -2.08          | 14.83                            | 3.00         | 61.85                   | -35.53    | -2.66                | 32.87       |
| 52.00                 | 364.00                   | PK       | 57.40                | H                | -2.18          | 15.21                            | 3.00         | 70.43                   | -26.95    | -2.66                | 24.29       |
| 52.00                 | 364.00                   | PK       | 64.60                | V                | -2.18          | 15.21                            | 3.00         | 77.63                   | -19.75    | -2.66                | 17.09       |
| 52.00                 | 416.00                   | PK       | 46.70                | H                | -2.33          | 16.07                            | 3.00         | 60.44                   | -36.93    | -2.66                | 34.27       |
| 52.00                 | 416.00                   | PK       | 45.30                | V                | -2.33          | 16.07                            | 3.00         | 59.04                   | -38.33    | -2.66                | 35.67       |
| 52.00                 | 468.00                   | PK       | 32.60                | H                | -2.52          | 17.11                            | 3.00         | 47.19                   | -50.19    | -2.66                | 47.53       |
| 52.00                 | 468.00                   | PK       | 36.30                | V                | -2.52          | 17.11                            | 3.00         | 50.89                   | -46.49    | -2.66                | 43.83       |
| 52.00                 | 520.00                   | PK       | 30.10                | H                | -2.73          | 18.25                            | 3.00         | 45.62                   | -51.76    | -2.66                | 49.10       |
| 52.00                 | 520.00                   | PK       | 28.50                | V                | -2.73          | 18.25                            | 3.00         | 44.02                   | -53.36    | -2.66                | 50.70       |

## 9. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate supplementary ANNEX-B document.

## 10. History of Test Report Changes

| Test Report #              | Revision # | Description     | Date of Issue |
|----------------------------|------------|-----------------|---------------|
| TR_18137-24_A1400S_FCC 97_ | 1          | Initial release | 2/24/2025     |
|                            | 3          | Updated page 13 | 5/7/2025      |
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END OF TEST REPORT

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