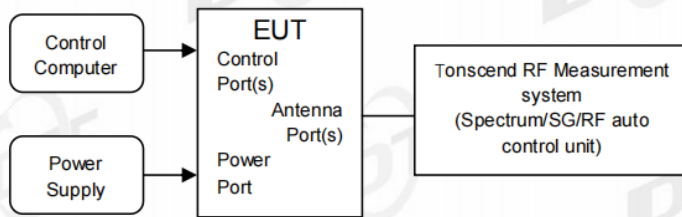


11. RF Conducted Spurious Emissions

11.1. Block diagram of test setup



11.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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.

11.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

| | |
|------------------|---|
| Center frequency | Test frequency |
| RBW: | 100 kHz |
| VBW: | 300 kHz |
| Span | Wide enough to capture the peak level of the in-band emission |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode | Max hold |

- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

- (4) Set the spectrum analyzer as follows:

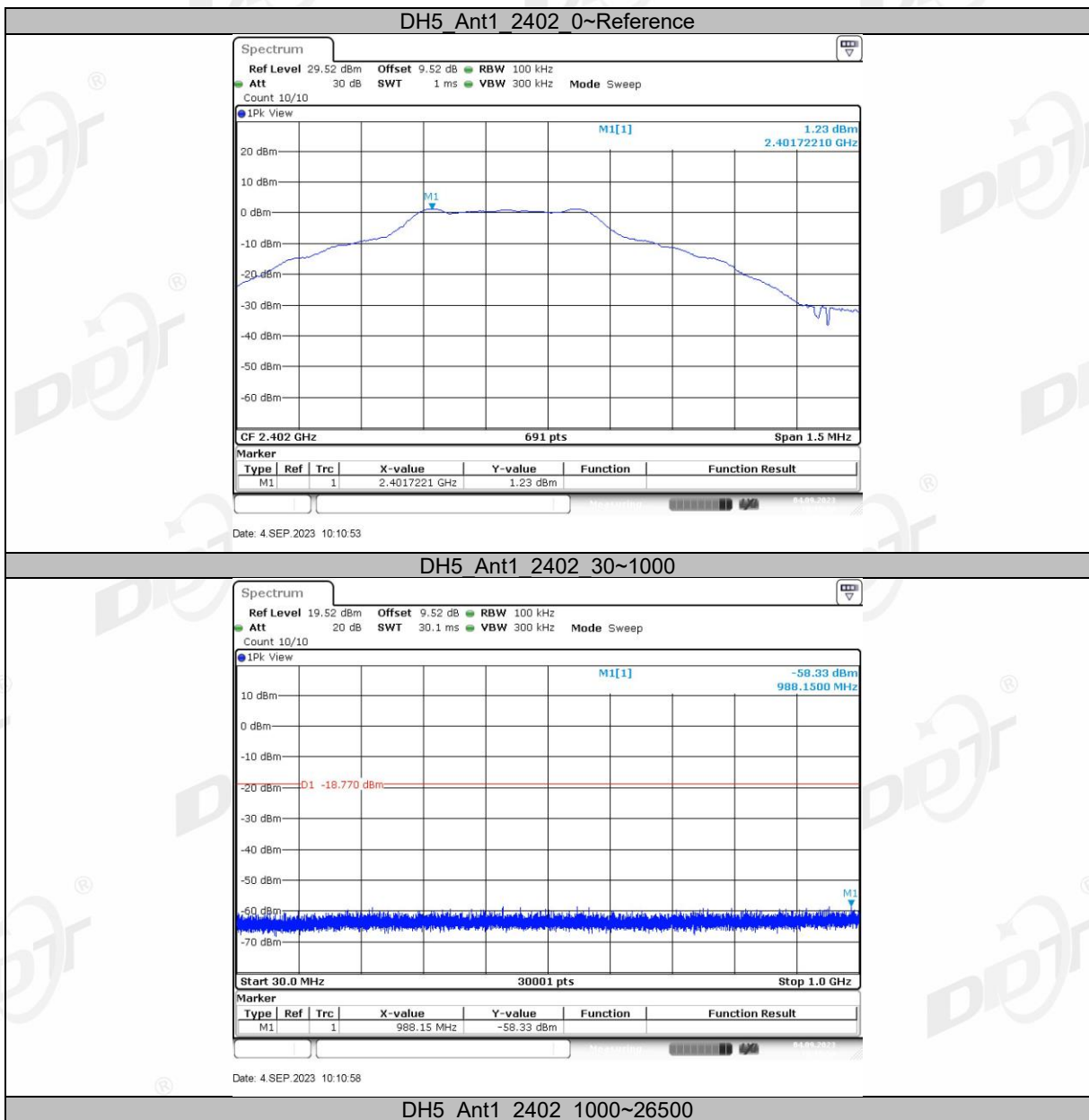
| | |
|------------------------------|--|
| RBW: | 100 kHz |
| VBW: | 300 kHz |
| Span | Encompass frequency range to be measured |
| Number of measurement points | $\geq \text{Span/RBW}$ |
| Detector Mode: | Peak |
| Sweep time: | Auto |
| Trace mode | Max hold |

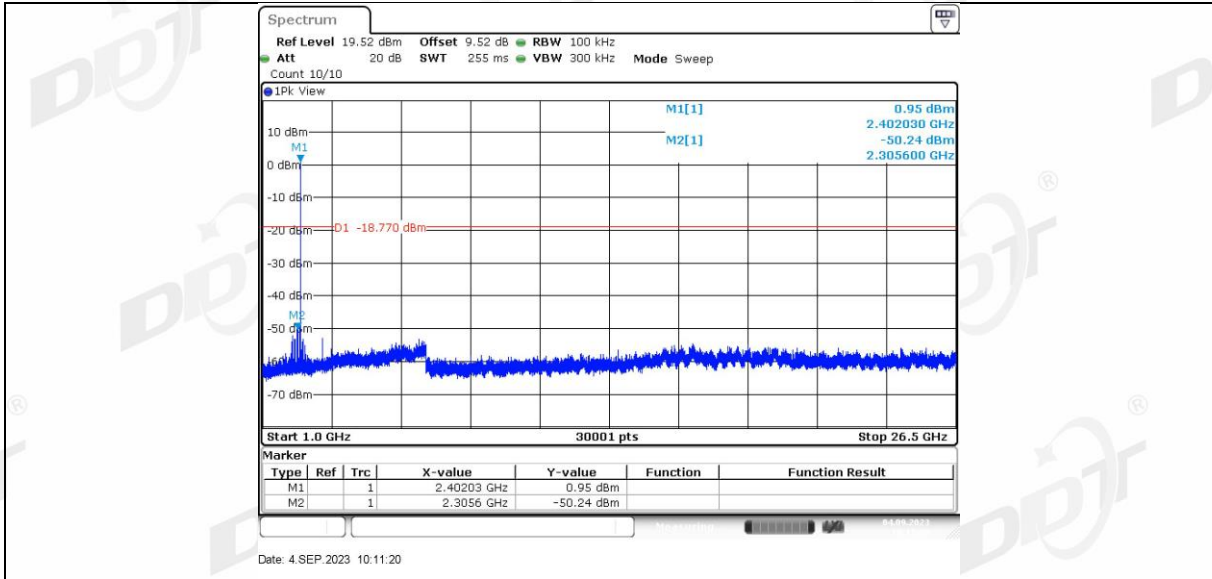
Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

11.4. Test result

| Mode | Freq. (MHz) | Verdict |
|----------------|------------------|---------|
| GFSK | Hopping off 2402 | Pass |
| | Hopping off 2441 | Pass |
| | Hopping off 2480 | Pass |
| $\pi/4$ -DQPSK | Hopping off 2402 | Pass |
| | Hopping off 2441 | Pass |
| | Hopping off 2480 | Pass |
| 8DPSK | Hopping off 2402 | Pass |
| | Hopping off 2441 | Pass |
| | Hopping off 2480 | Pass |

11.5. Test graphs

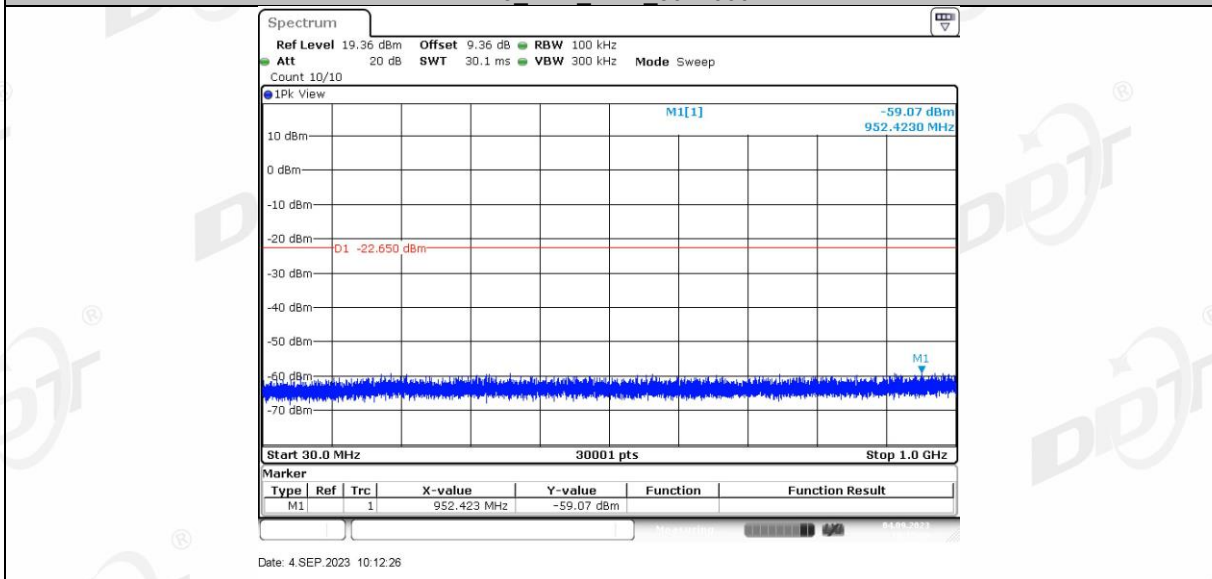




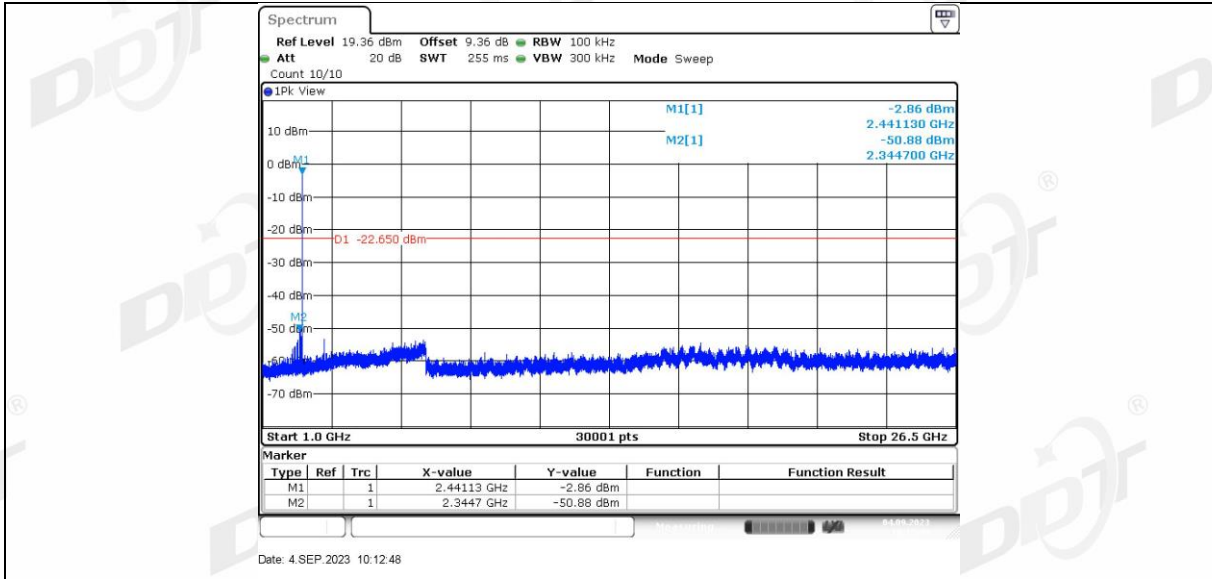
DH5 Ant1 2441 0~Reference



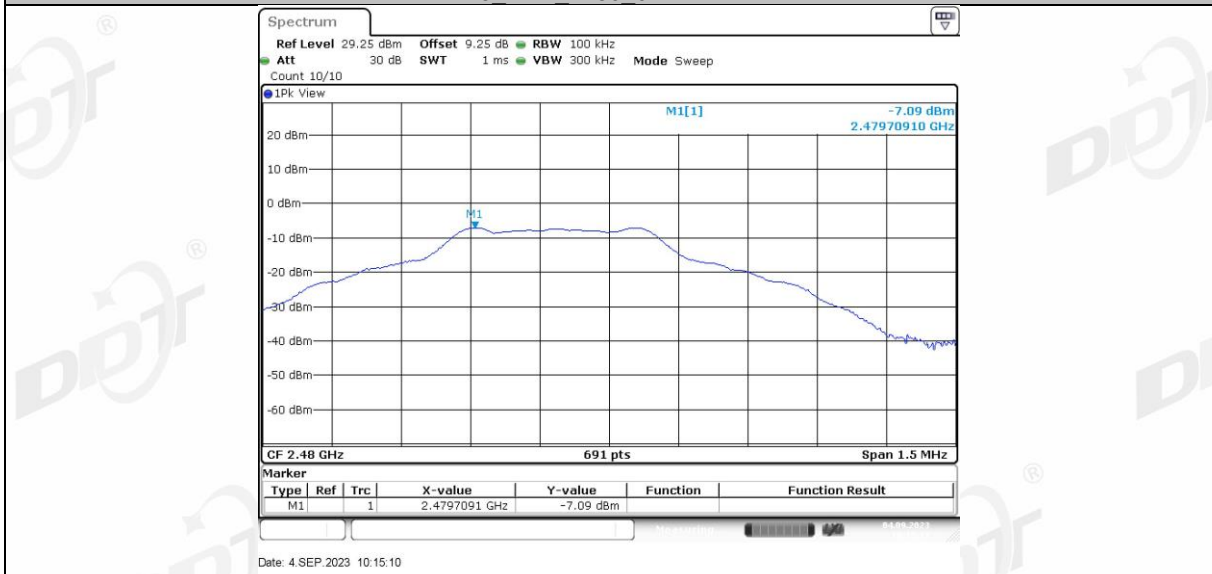
DH5 Ant1 2441 30~1000



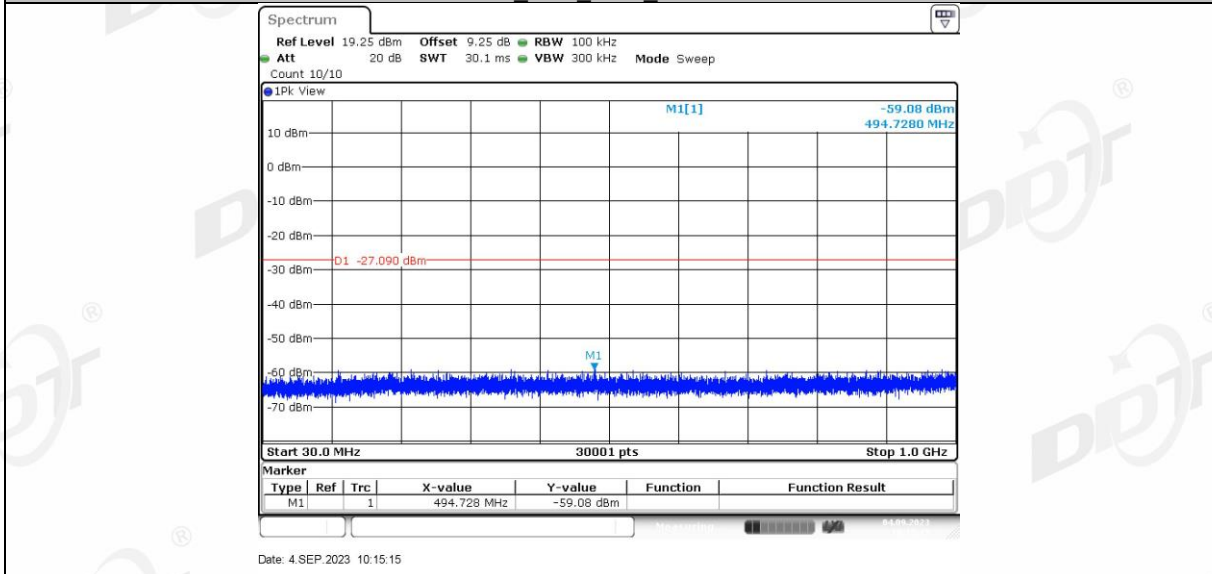
DH5 Ant1 2441 1000~26500



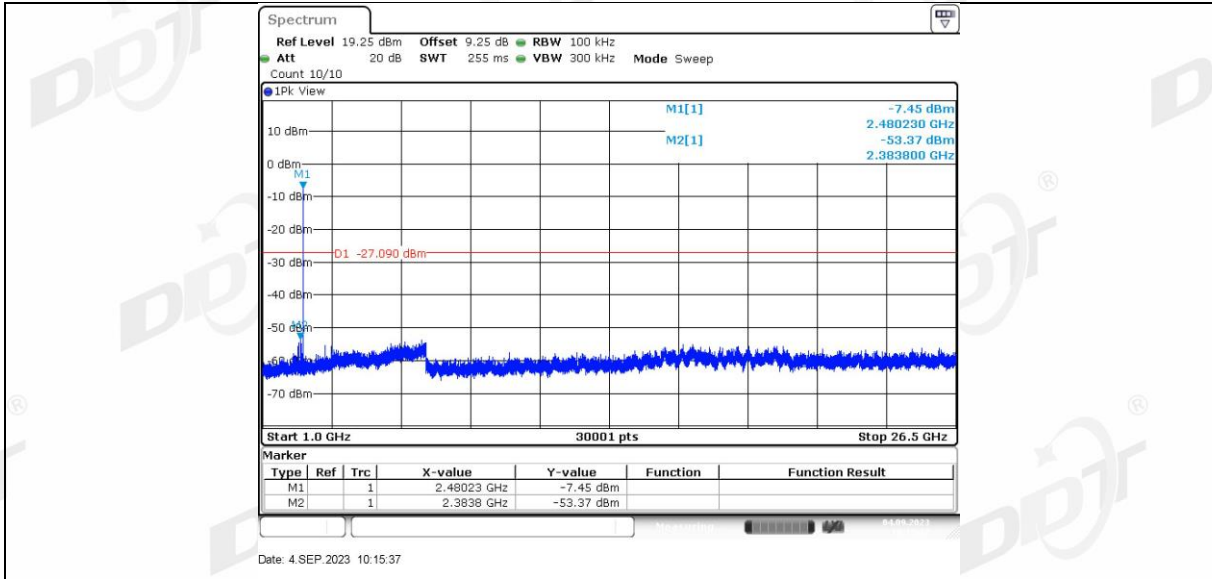
DH5 Ant1 2480 0~Reference



DH5 Ant1 2480 30~1000



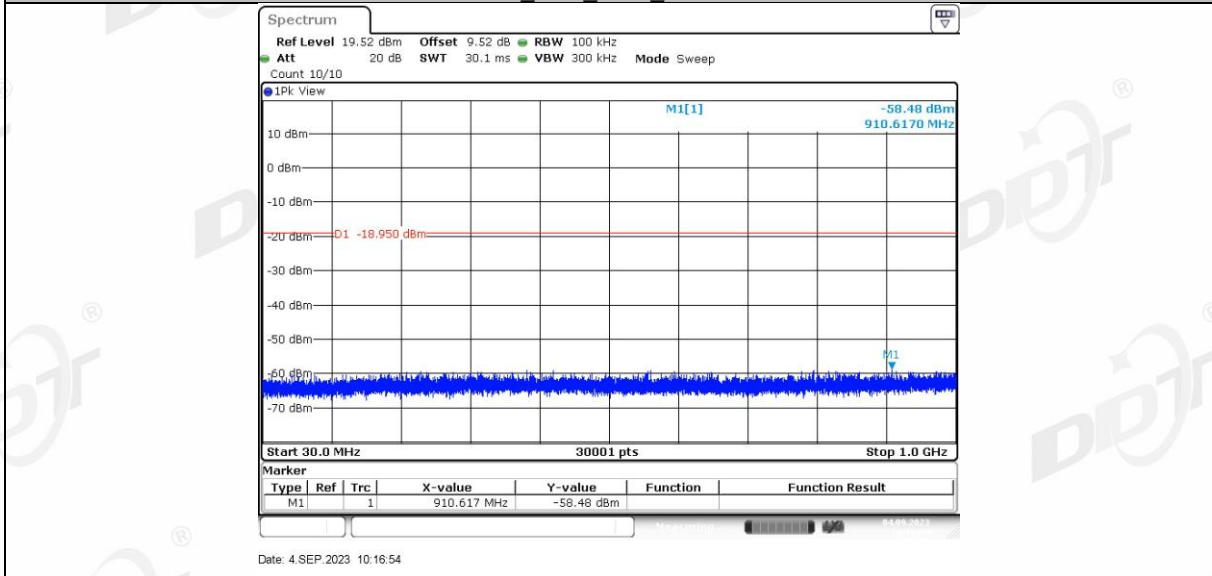
DH5 Ant1 2480 1000~26500



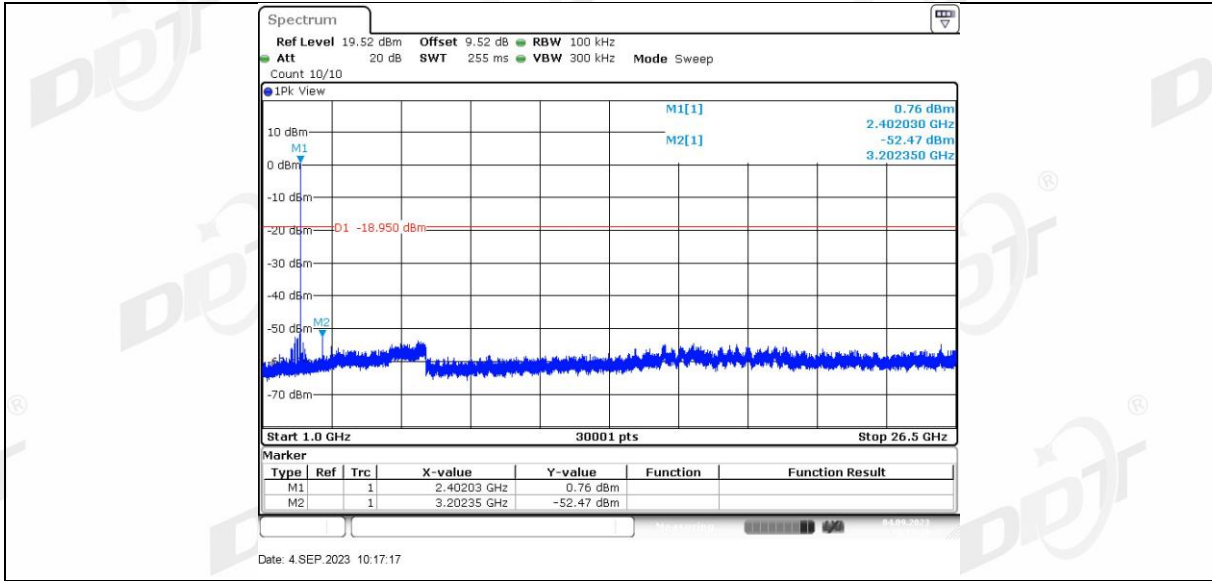
2DH5 Ant1 2402 0~Reference



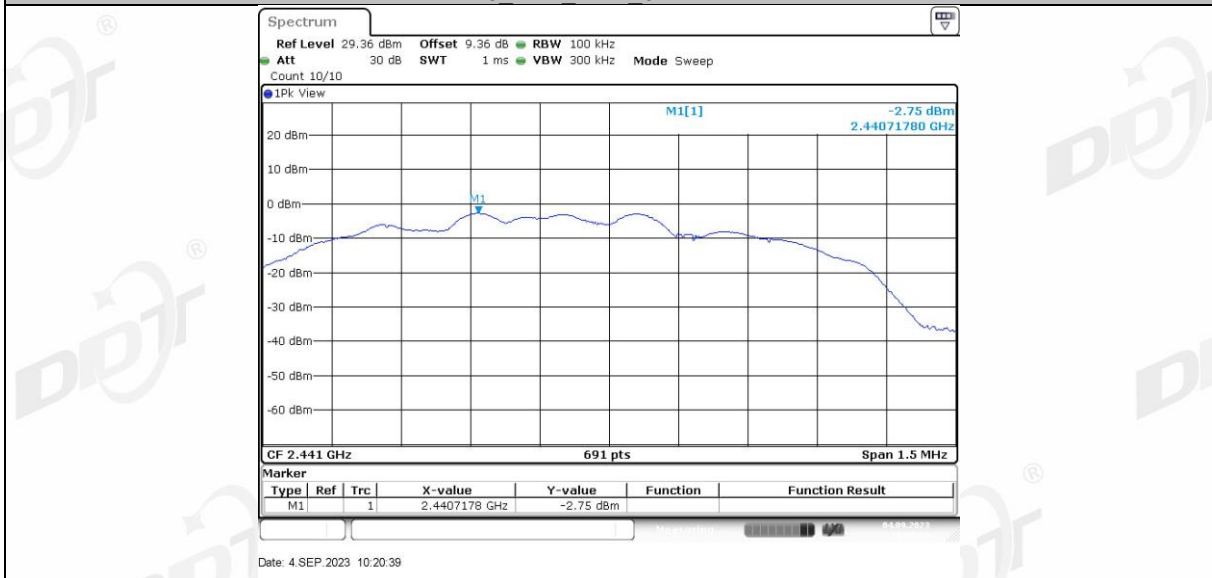
2DH5 Ant1 2402 30~1000



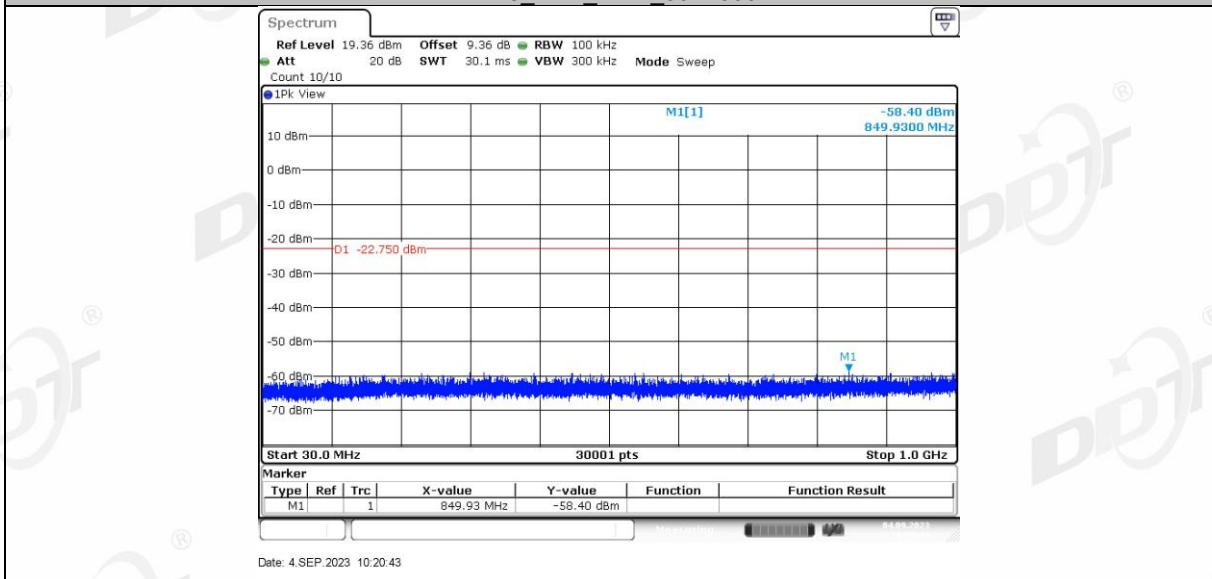
2DH5 Ant1 2402 1000~26500



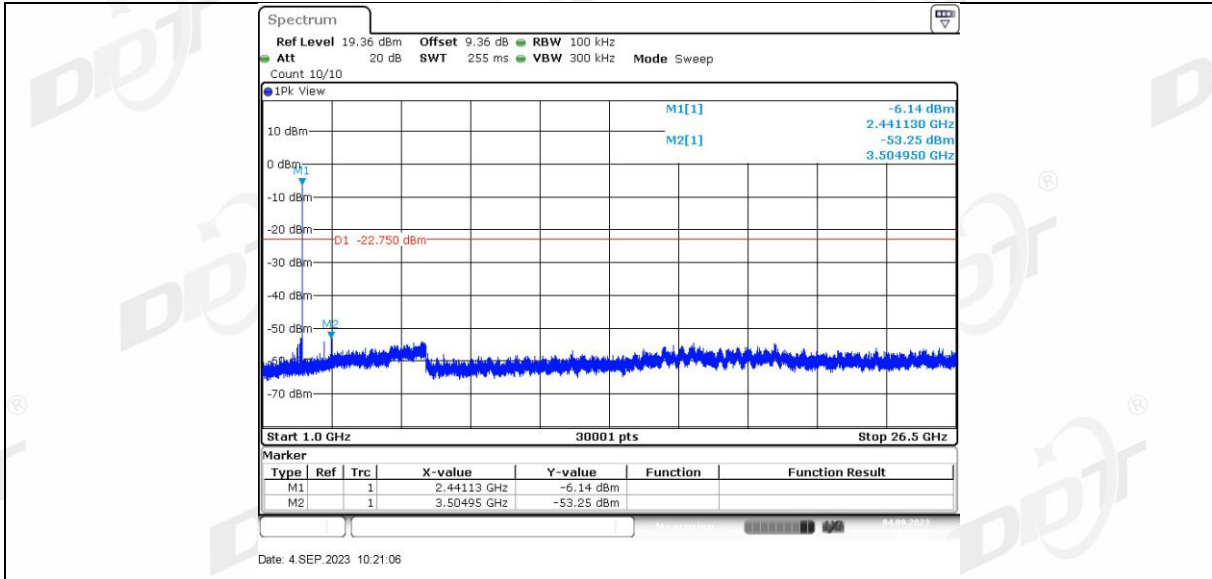
2DH5 Ant1 2441 0~Reference



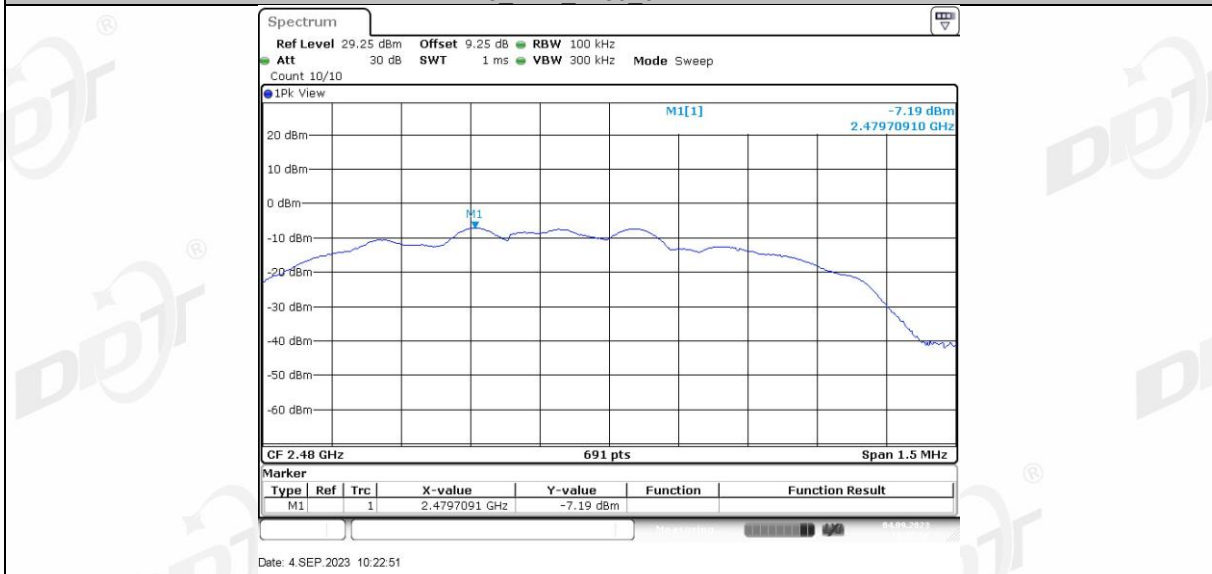
2DH5 Ant1 2441 30~1000



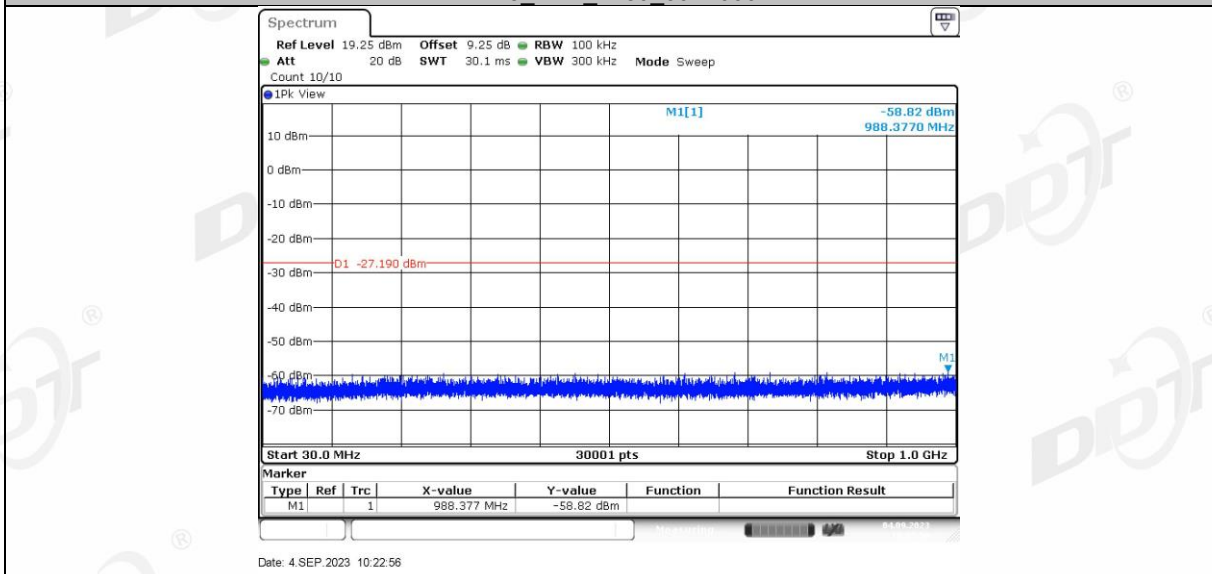
2DH5 Ant1 2441 1000~26500



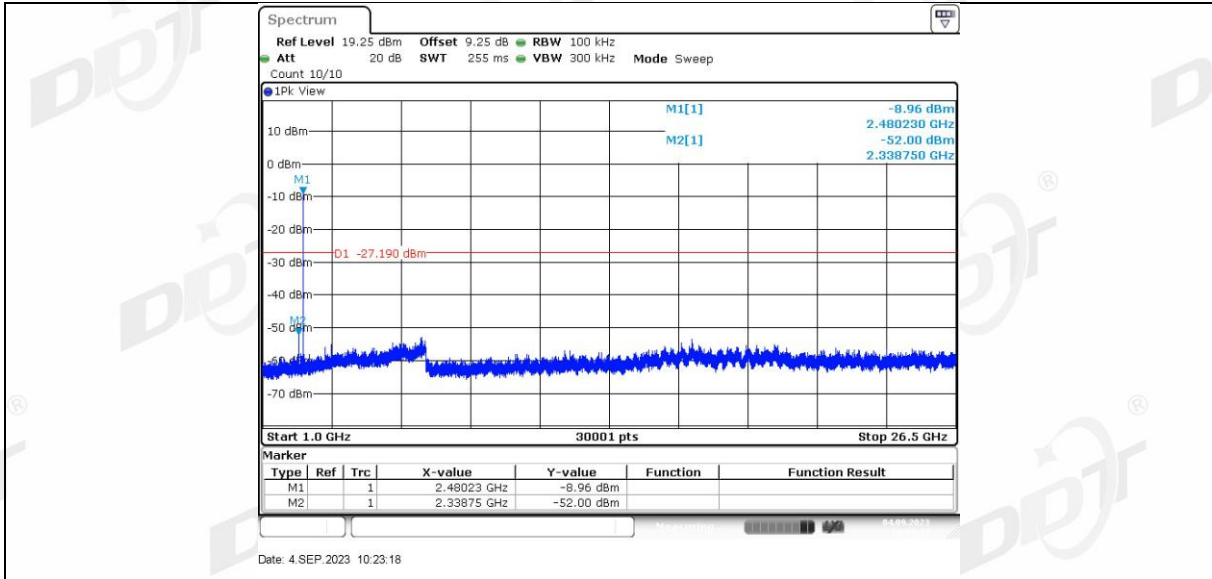
2DH5 Ant1 2480 0~Reference



2DH5 Ant1 2480 30~1000



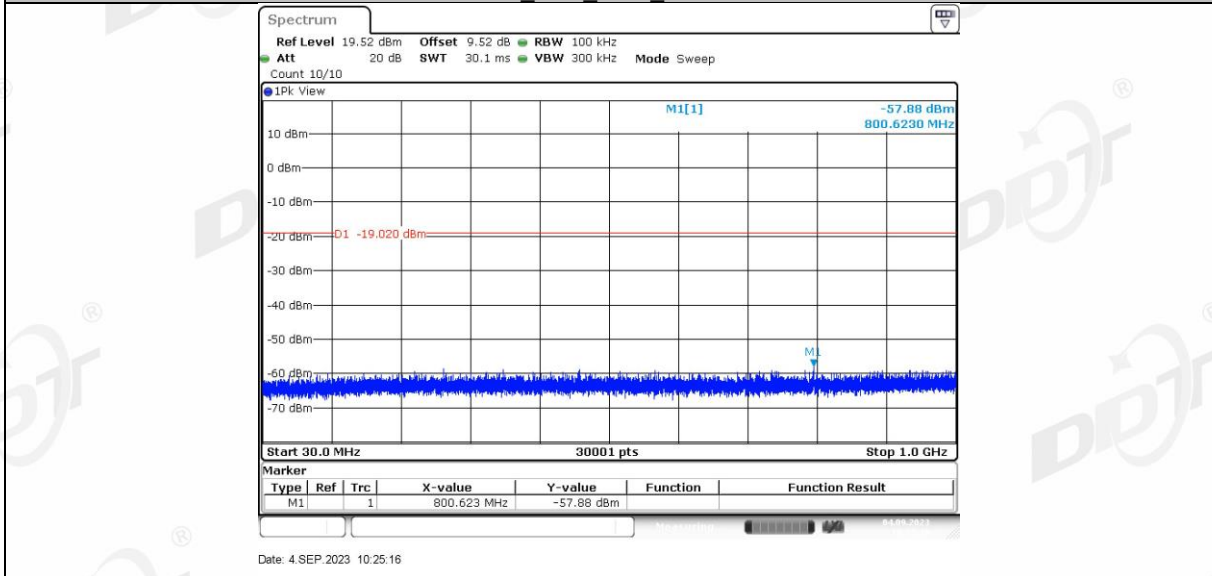
2DH5 Ant1 2480 1000~26500



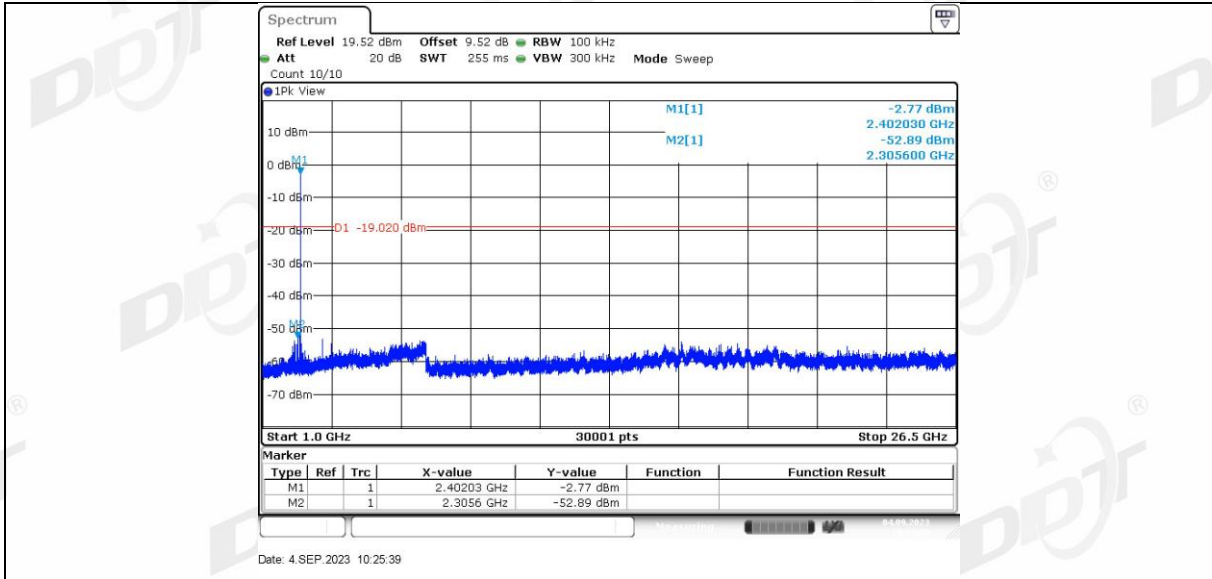
3DH5 Ant1 2402 0~Reference



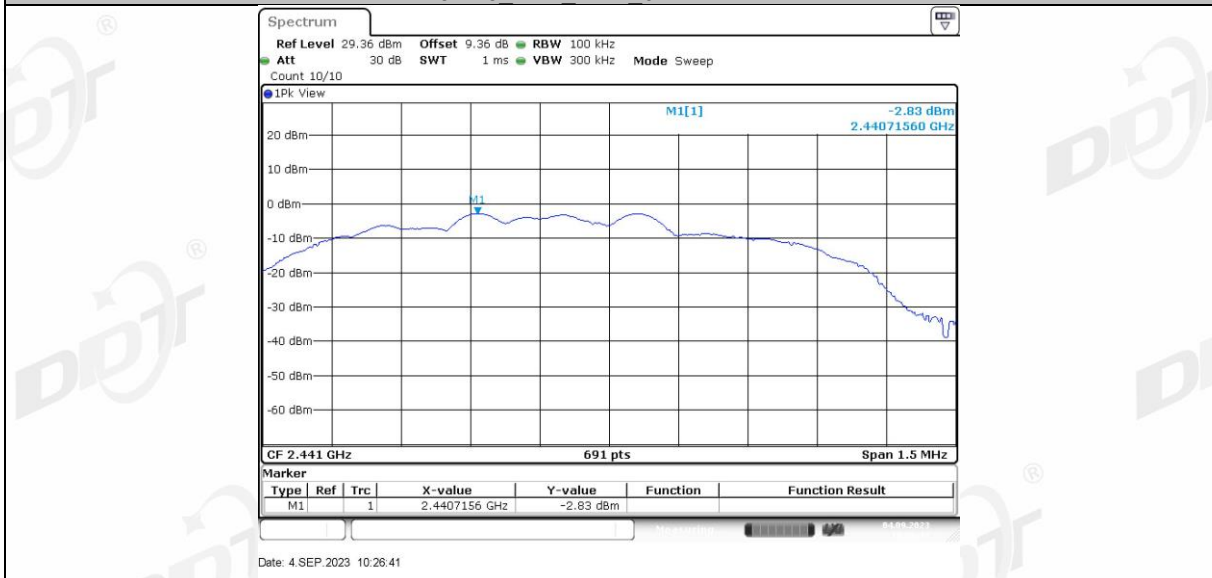
3DH5 Ant1 2402 30~1000



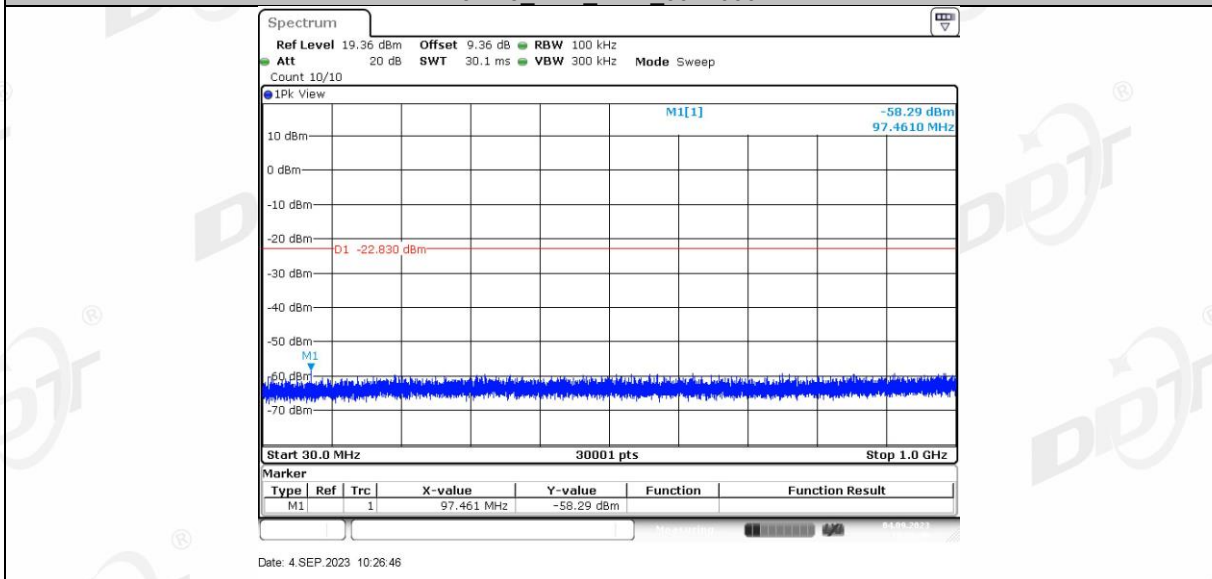
3DH5 Ant1 2402 1000~26500



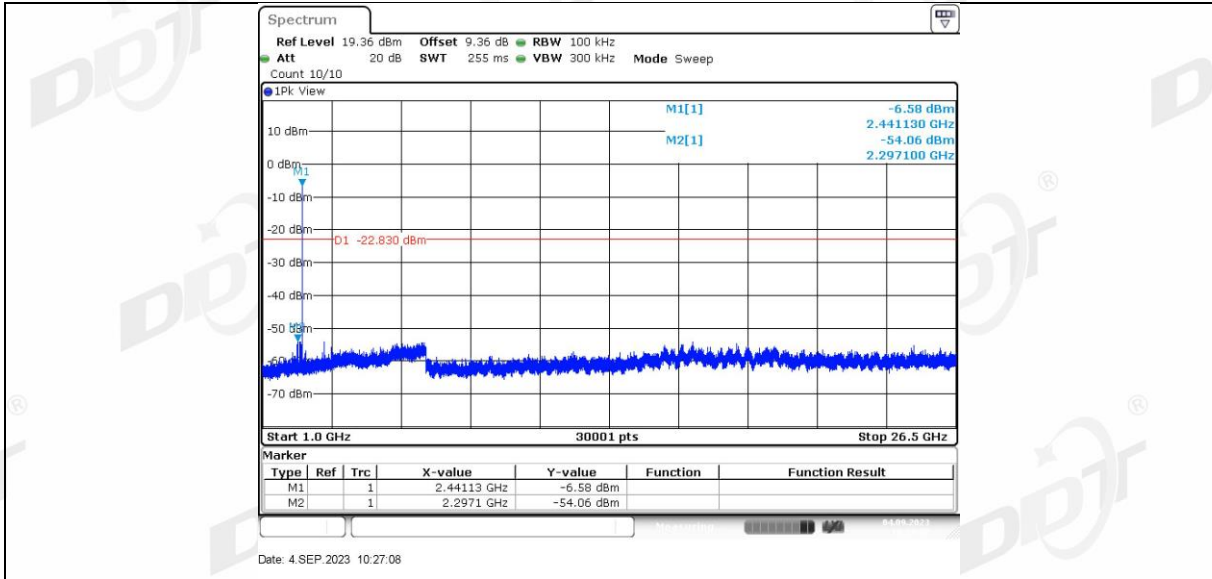
3DH5 Ant1 2441 0~Reference



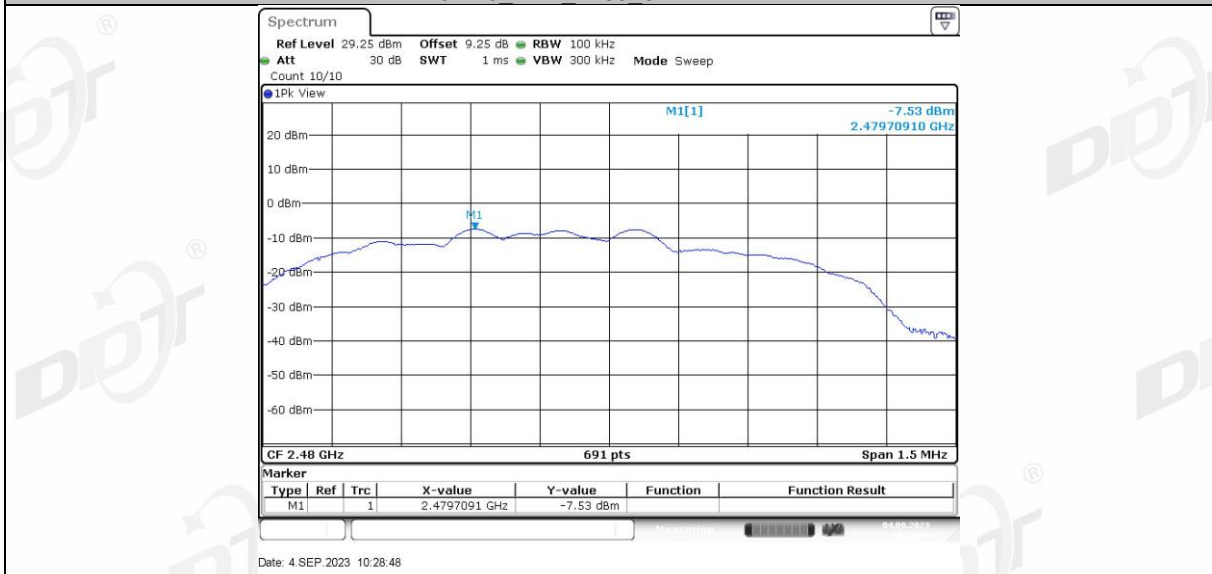
3DH5 Ant1 2441 30~1000



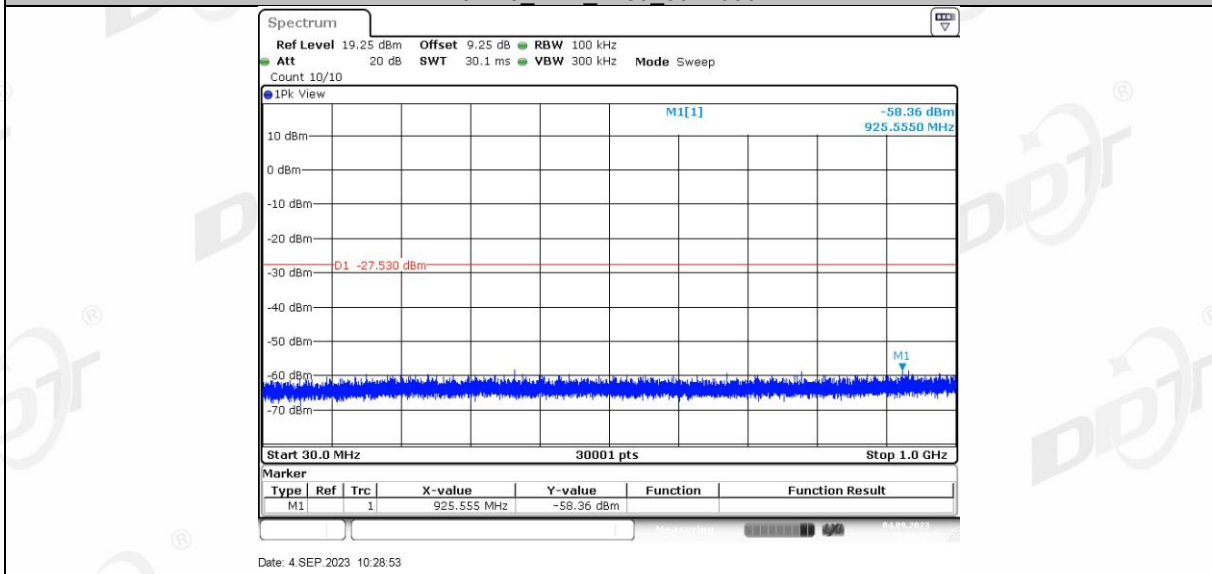
3DH5 Ant1 2441 1000~26500



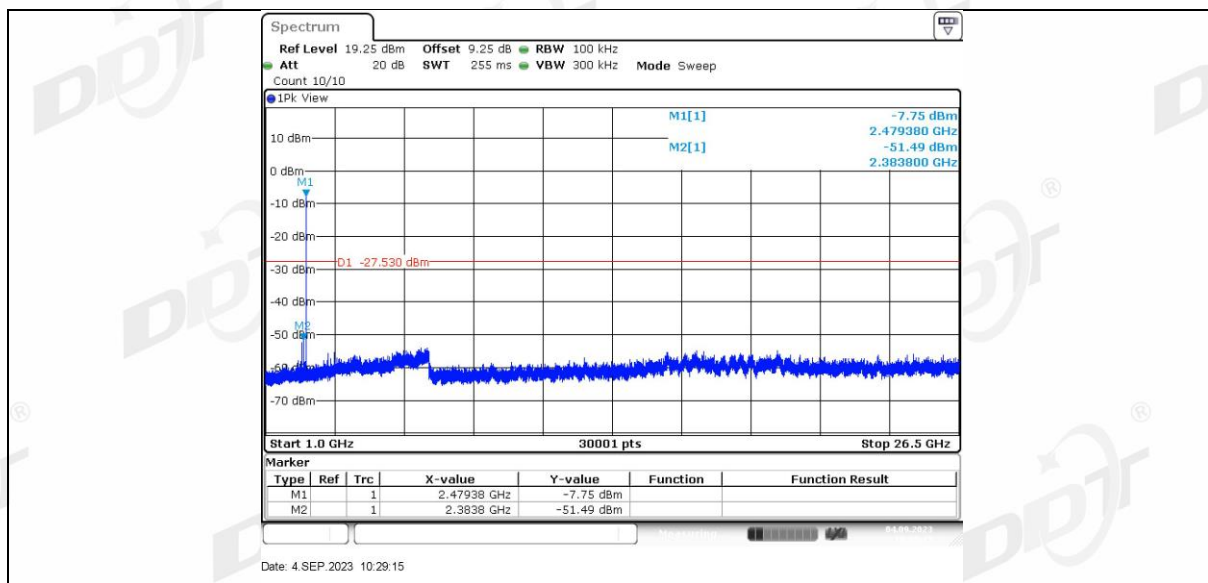
3DH5 Ant1 2480 0~Reference



3DH5 Ant1 2480 30~1000

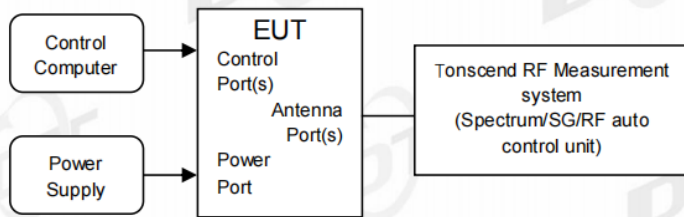


3DH5 Ant1 2480 1000~26500



12. Duty cycle

12.1. Block diagram of test setup



12.2. Limit

Just for Report.

12.3. Test procedure

- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 1 MHz.

Video BW: 1 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

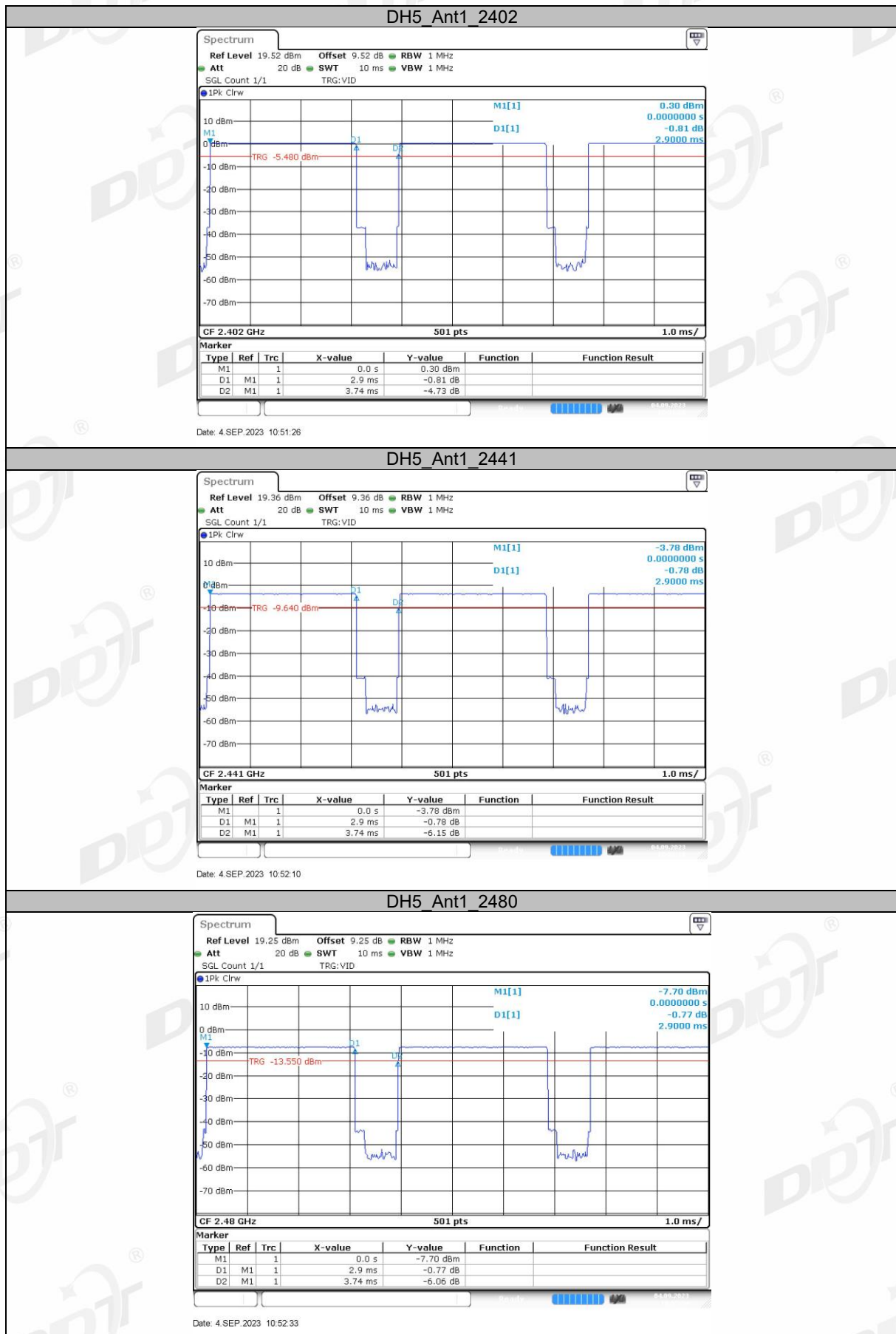
Sweep: Video Trigger

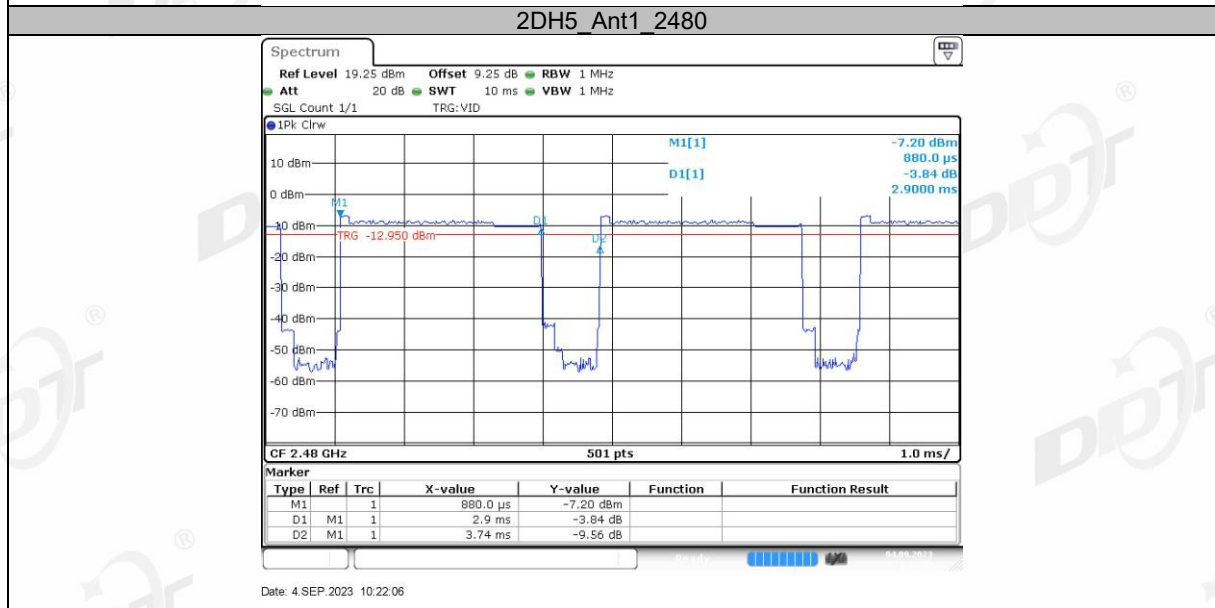
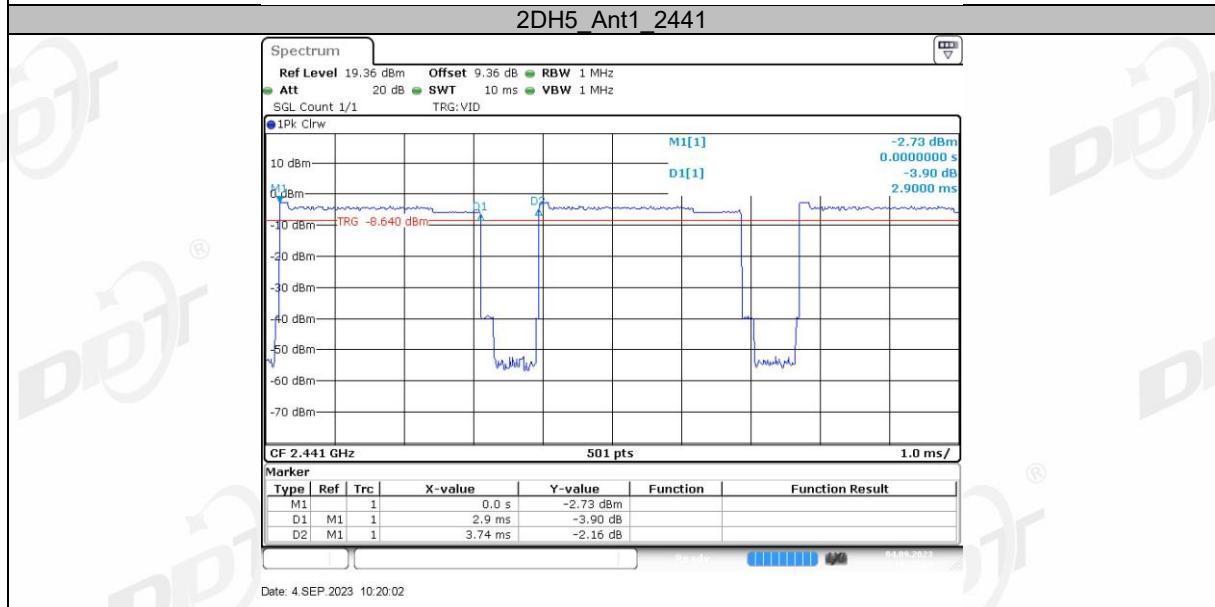
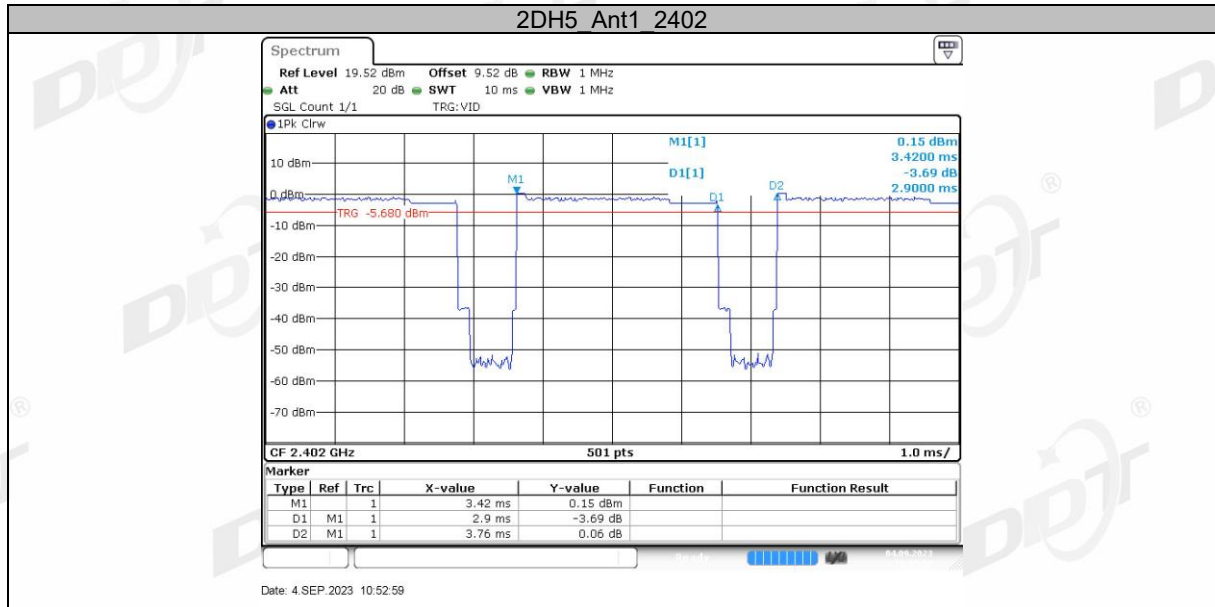
- When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

12.4. Test result

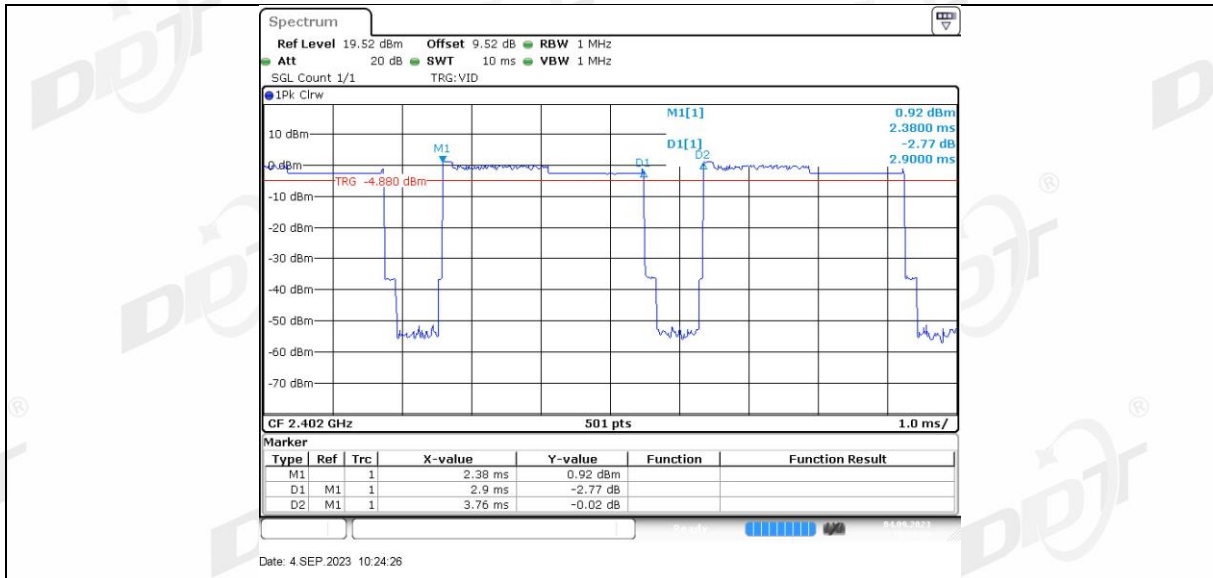
| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|-----------------------|
| DH5 | Ant1 | 2402 | 2.90 | 3.74 | 77.54 | 1.10 |
| | | 2441 | 2.90 | 3.74 | 77.54 | 1.10 |
| | | 2480 | 2.90 | 3.74 | 77.54 | 1.10 |
| 2DH5 | Ant1 | 2402 | 2.90 | 3.76 | 77.13 | 1.13 |
| | | 2441 | 2.90 | 3.74 | 77.54 | 1.10 |
| | | 2480 | 2.90 | 3.74 | 77.54 | 1.10 |
| 3DH5 | Ant1 | 2402 | 2.90 | 3.76 | 77.13 | 1.13 |
| | | 2441 | 2.90 | 3.76 | 77.13 | 1.13 |
| | | 2480 | 2.90 | 3.74 | 77.54 | 1.10 |

12.5. Test graphs

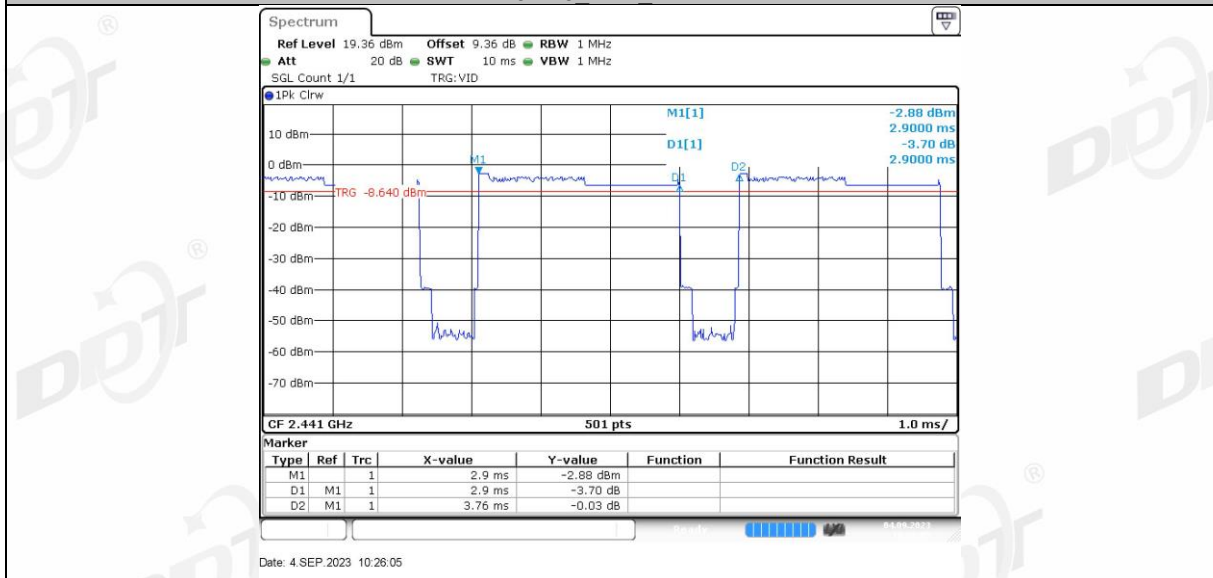




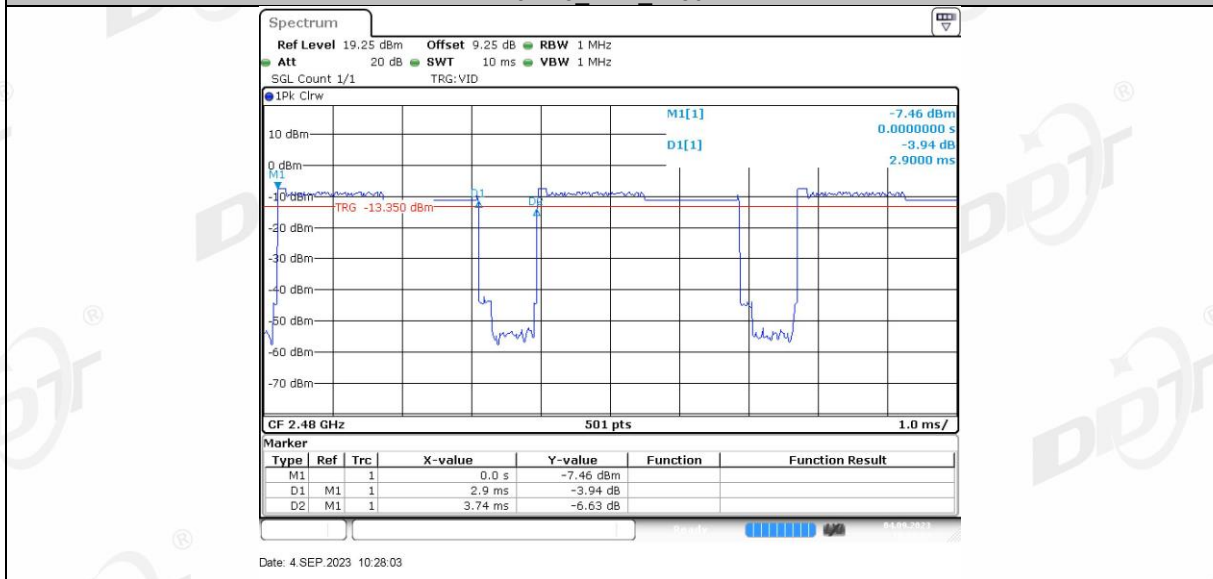
3DH5_Ant1_2402



3DH5 Ant1_2441



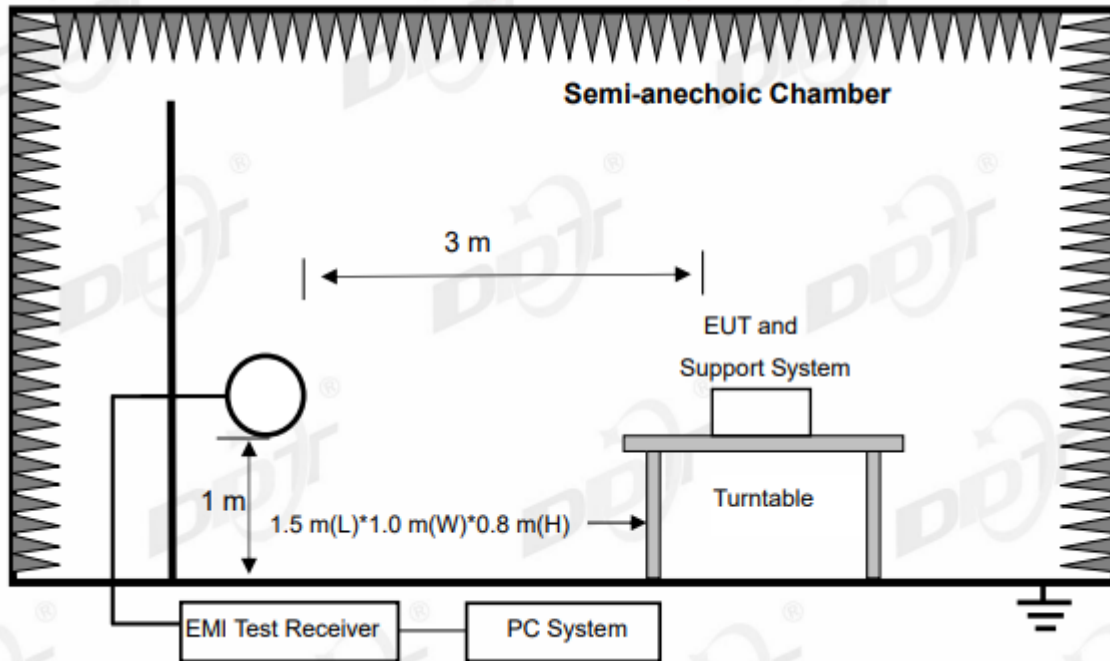
3DH5 Ant1_2480



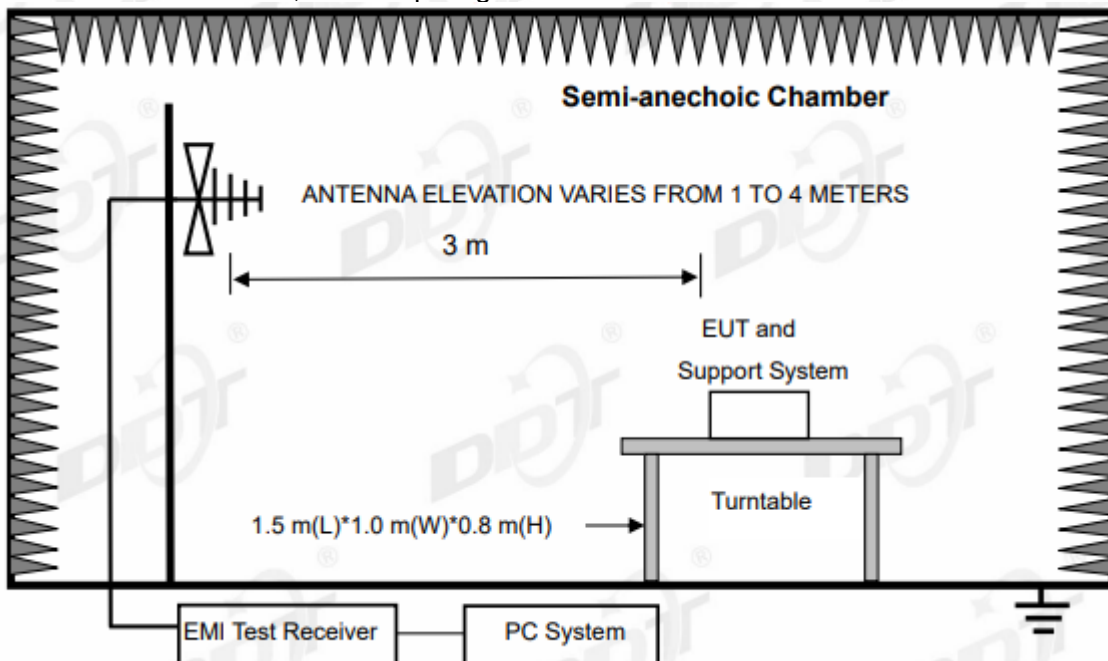
13. Radiated Emission

13.1. Block diagram of test setup

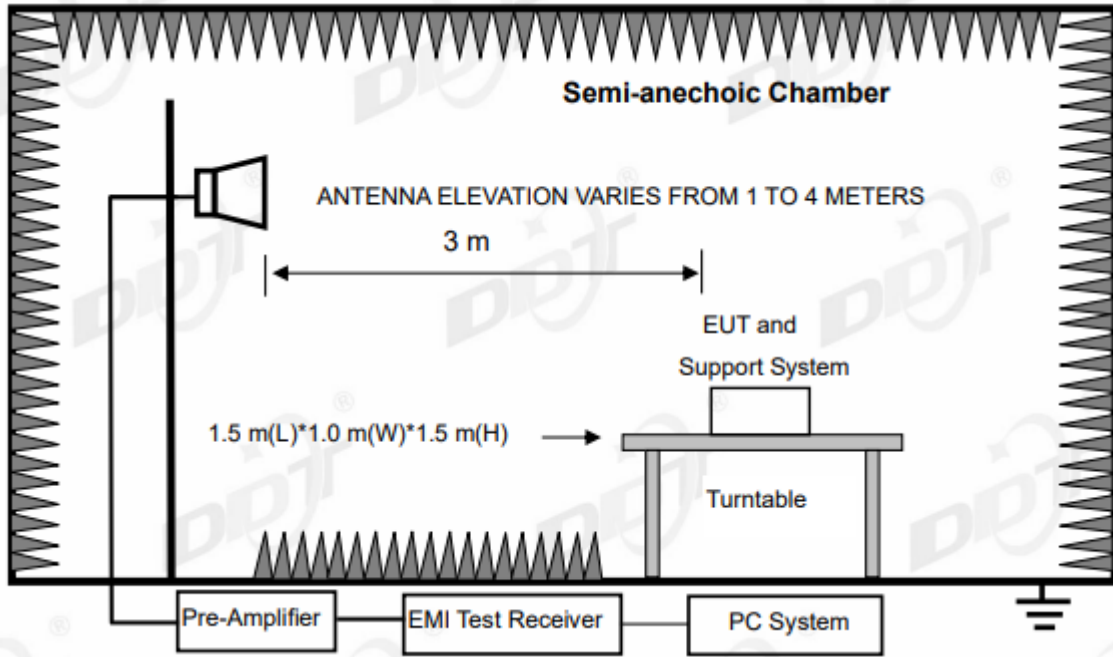
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

13.2. Limit

(1) FCC 15.205 Restricted frequency band

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.1772&4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.2072&4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

²Above 38.6

(2) FCC 15.209 Limit

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|---|-----------------------------------|
| | | $\mu\text{V}/\text{m}$ | $\text{dB}(\mu\text{V})/\text{m}$ |
| 0.009 ~ 0.490 | 300 | $2400/F(\text{kHz})$ | $67.6-20\log(F)$ |
| 0.490 ~ 1.705 | 30 | $24000/F(\text{kHz})$ | $87.6-20\log(F)$ |
| 1.705 ~ 30.0 | 30 | 30 | 29.54 |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) | |

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

13.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.
- (2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

| Test frequency range | Test antenna used | Test antenna distance |
|----------------------|--|-----------------------|
| 9 kHz - 30 MHz | Active Loop antenna | 3 m |
| 30 MHz - 1 GHz | Trilog Broadband Antenna | 3 m |
| 1 GHz - 18 GHz | Double Ridged Horn Antenna (1 GHz - 18 GHz) | 3 m |
| 18 GHz - 40 GHz | Horn Antenna (18 GHz - 40 GHz) | 1 m |

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic

antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission.

Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

| Frequency band | RBW |
|------------------|---------|
| 9 kHz - 150 kHz | 200 Hz |
| 150 kHz - 30 MHz | 9 kHz |
| 30 MHz - 1 GHz | 120 kHz |

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

13.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: 30 MHz ~ 25 GHz: (Scan with GFSK, $\pi/4$ -DQPSK and 8DPSK, the worst case is GFSK Mode)

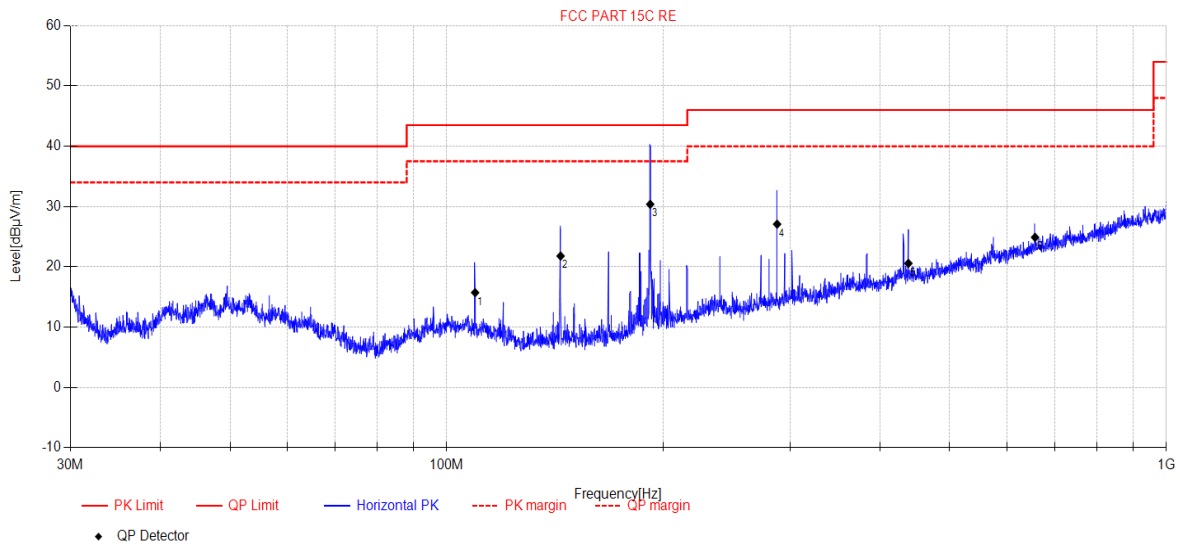
Note3: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in GFSK, Tx 2402 MHz mode.

Note4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC BELOW 1G\20230901-105814_H
Memo: BT



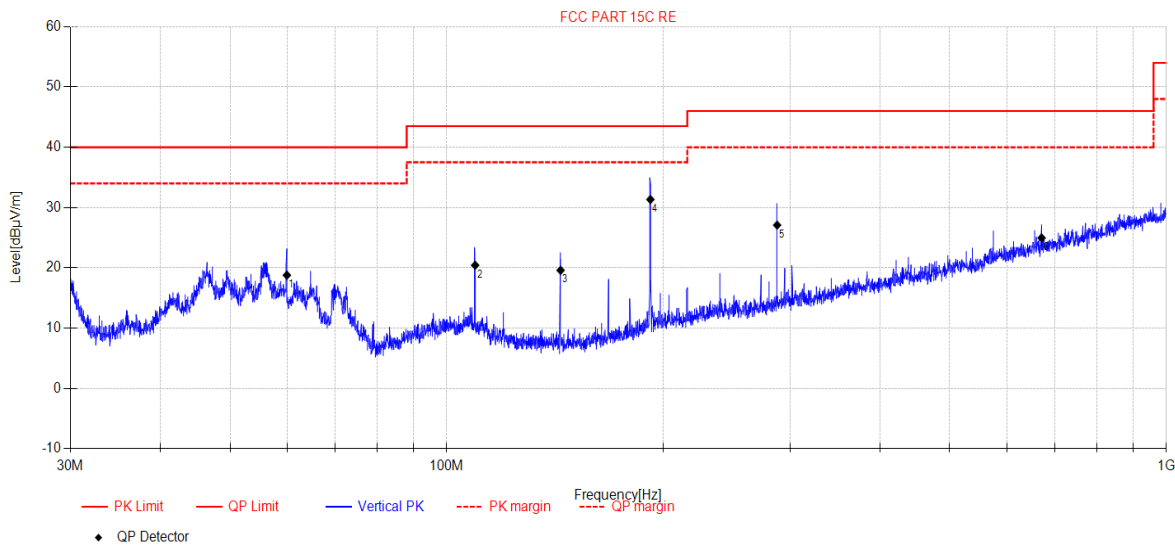
| Final Data List | | | | | | | | | | |
|-----------------|-------------|------------------|---------------------|-----------------|----------|-----------------|----------------|-------------|----------|------------|
| NO. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable Loss [dB] | AMP [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 109.54 | 30.93 | 10.55 | 5.12 | -30.87 | 15.73 | 43.50 | 27.77 | QP | Horizontal |
| 2 | 143.99 | 39.88 | 7.40 | 5.29 | -30.77 | 21.80 | 43.50 | 21.70 | QP | Horizontal |
| 3 | 191.81 | 44.95 | 10.39 | 5.66 | -30.62 | 30.38 | 43.50 | 13.12 | QP | Horizontal |
| 4 | 287.86 | 38.36 | 12.96 | 6.10 | -30.34 | 27.08 | 46.00 | 18.92 | QP | Horizontal |
| 5 | 438.11 | 27.85 | 15.96 | 6.79 | -30.02 | 20.58 | 46.00 | 25.42 | QP | Horizontal |
| 6 | 657.05 | 27.88 | 19.34 | 7.58 | -29.90 | 24.90 | 46.00 | 21.10 | QP | Horizontal |

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC BELOW 1G\20230901-105859_V
Memo: BT



| Final Data List | | | | | | | | | | |
|-----------------|-------------|------------------|---------------------|-----------------|----------|-----------------|----------------|-------------|----------|----------|
| NO. | Freq. [MHz] | Reading [dBµV/m] | Antenna Factor [dB] | Cable Loss [dB] | AMP [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 59.98 | 32.76 | 11.90 | 4.76 | -30.63 | 18.79 | 40.00 | 21.21 | QP | Vertical |
| 2 | 109.54 | 35.63 | 10.55 | 5.12 | -30.87 | 20.43 | 43.50 | 23.07 | QP | Vertical |
| 3 | 143.99 | 37.68 | 7.40 | 5.29 | -30.77 | 19.60 | 43.50 | 23.90 | QP | Vertical |
| 4 | 191.94 | 45.91 | 10.39 | 5.66 | -30.62 | 31.34 | 43.50 | 12.16 | QP | Vertical |
| 5 | 287.86 | 38.37 | 12.96 | 6.10 | -30.34 | 27.09 | 46.00 | 18.91 | QP | Vertical |
| 6 | 671.01 | 27.61 | 19.62 | 7.64 | -29.90 | 24.97 | 46.00 | 21.03 | QP | Vertical |

Note:

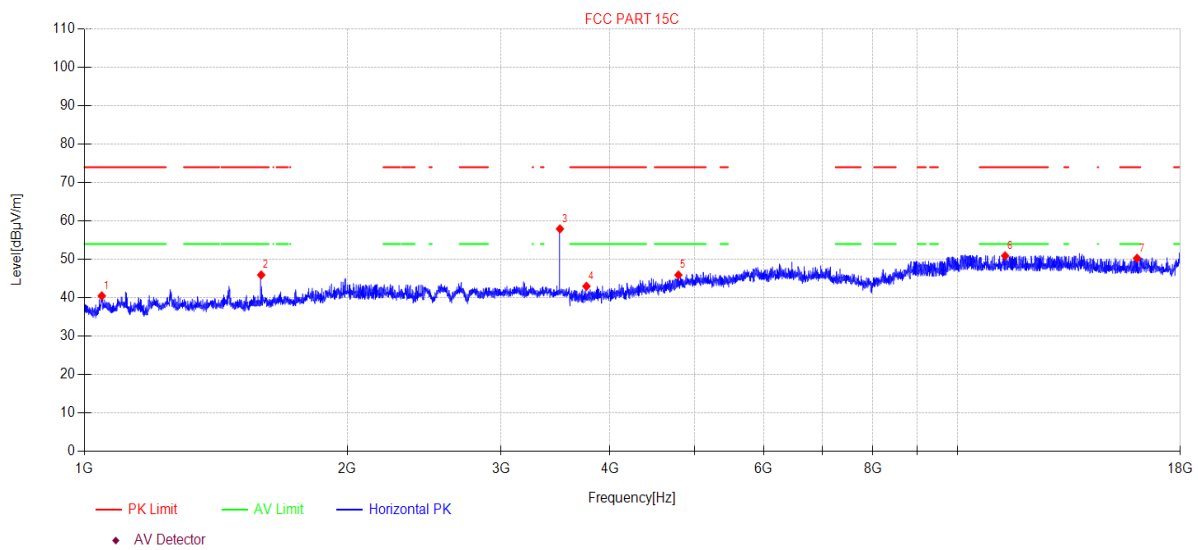
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\5
Memo: DH5 2402

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 1047.02 | 48.84 | 3.07 | 25.49 | -36.89 | 40.51 | 74.00 | 33.49 | PK | Horizontal |
| 2 | 1594.34 | 52.72 | 4.79 | 25.40 | -36.96 | 45.95 | 74.00 | 28.05 | PK | Horizontal |
| 3 | 3505.37 | 62.84 | 5.74 | 29.51 | -40.15 | 57.94 | - | - | PK | Horizontal |
| 4 | 3759.31 | 47.36 | 5.80 | 30.14 | -40.30 | 43.00 | 74.00 | 31.00 | PK | Horizontal |
| 5 | 4790.88 | 46.38 | 7.45 | 32.26 | -40.16 | 45.93 | 74.00 | 28.07 | PK | Horizontal |
| 6 | 11338.99 | 41.13 | 9.95 | 39.10 | -39.25 | 50.93 | 74.00 | 23.07 | PK | Horizontal |
| 7 | 16058.10 | 36.21 | 15.65 | 37.84 | -39.41 | 50.29 | 74.00 | 23.71 | PK | Horizontal |

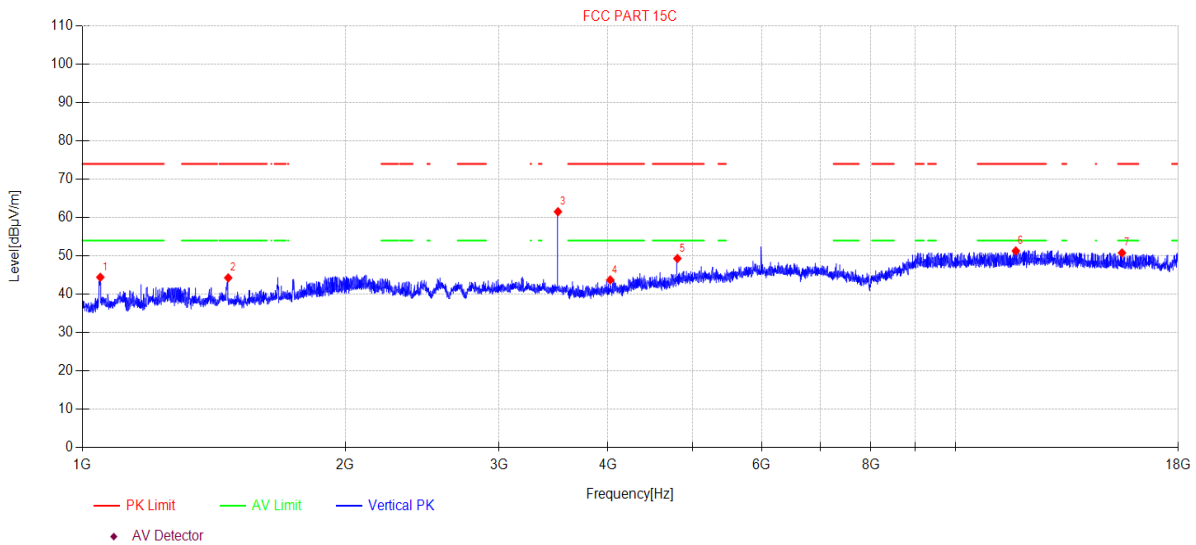
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\6
Memo: DH5 2402

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 1048.54 | 52.76 | 3.07 | 25.50 | -36.89 | 44.44 | 74.00 | 29.56 | PK | Vertical |
| 2 | 1469.13 | 51.26 | 4.40 | 25.56 | -36.94 | 44.28 | 74.00 | 29.72 | PK | Vertical |
| 3 | 3505.37 | 66.42 | 5.74 | 29.51 | -40.15 | 61.52 | - | - | PK | Vertical |
| 4 | 4023.50 | 47.53 | 5.90 | 30.75 | -40.44 | 43.74 | 74.00 | 30.26 | PK | Vertical |
| 5 | 4803.36 | 49.70 | 7.47 | 32.31 | -40.15 | 49.33 | 74.00 | 24.67 | PK | Vertical |
| 6 | 11725.58 | 41.63 | 10.30 | 38.80 | -39.43 | 51.30 | 74.00 | 22.70 | PK | Vertical |
| 7 | 15515.22 | 37.60 | 13.68 | 38.57 | -39.07 | 50.78 | 74.00 | 23.22 | PK | Vertical |

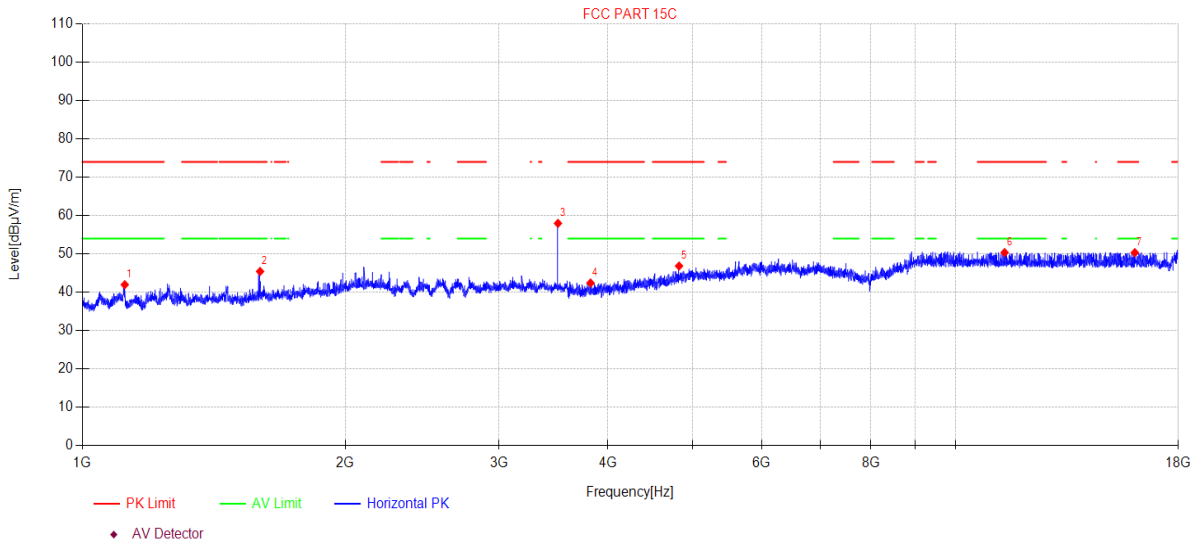
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\7
Memo: DH5 2441

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 1118.34 | 50.05 | 3.29 | 25.54 | -36.90 | 41.98 | 74.00 | 32.02 | PK | Horizontal |
| 2 | 1598.03 | 52.19 | 4.80 | 25.40 | -36.96 | 45.43 | 74.00 | 28.57 | PK | Horizontal |
| 3 | 3505.37 | 62.87 | 5.74 | 29.51 | -40.15 | 57.97 | - | - | PK | Horizontal |
| 4 | 3819.55 | 46.61 | 5.81 | 30.34 | -40.34 | 42.42 | 74.00 | 31.58 | PK | Horizontal |
| 5 | 4824.22 | 47.08 | 7.51 | 32.40 | -40.15 | 46.84 | 74.00 | 27.16 | PK | Horizontal |
| 6 | 11384.97 | 40.53 | 9.99 | 39.10 | -39.27 | 50.35 | 74.00 | 23.65 | PK | Horizontal |
| 7 | 16048.82 | 36.19 | 15.69 | 37.85 | -39.40 | 50.33 | 74.00 | 23.67 | PK | Horizontal |

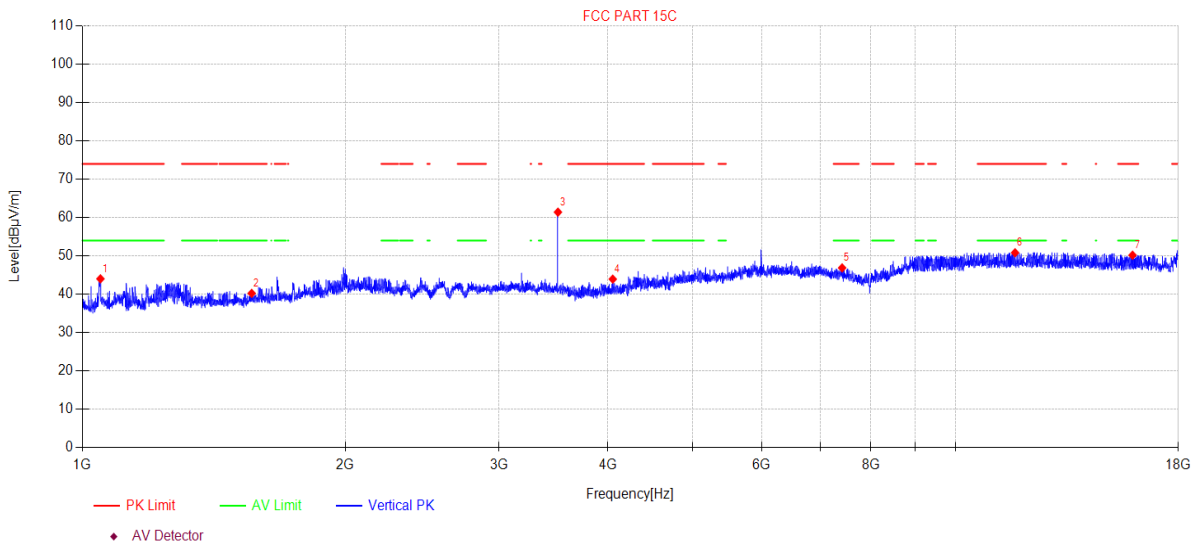
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\8
Memo: DH5 2441

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 1048.84 | 52.35 | 3.07 | 25.50 | -36.89 | 44.03 | 74.00 | 29.97 | PK | Vertical |
| 2 | 1562.86 | 47.10 | 4.69 | 25.40 | -36.95 | 40.24 | 74.00 | 33.76 | PK | Vertical |
| 3 | 3505.37 | 66.31 | 5.74 | 29.51 | -40.15 | 61.41 | - | - | PK | Vertical |
| 4 | 4050.34 | 47.63 | 5.95 | 30.80 | -40.43 | 43.95 | 74.00 | 30.05 | PK | Vertical |
| 5 | 7416.40 | 44.47 | 7.64 | 36.50 | -41.74 | 46.87 | 74.00 | 27.13 | PK | Vertical |
| 6 | 11701.88 | 41.18 | 10.27 | 38.80 | -39.42 | 50.83 | 74.00 | 23.17 | PK | Vertical |
| 7 | 15951.71 | 35.85 | 15.66 | 38.00 | -39.33 | 50.18 | 74.00 | 23.82 | PK | Vertical |

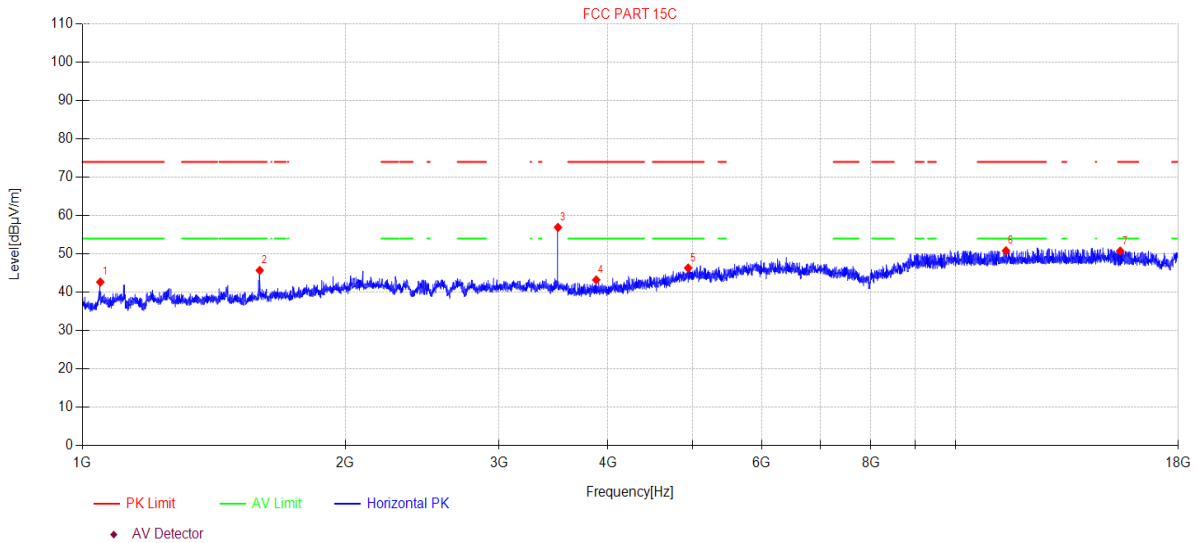
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\9
Memo: DH5 2480

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 1048.54 | 50.98 | 3.07 | 25.50 | -36.89 | 42.66 | 74.00 | 31.34 | PK | Horizontal |
| 2 | 1596.64 | 52.46 | 4.80 | 25.40 | -36.96 | 45.70 | 74.00 | 28.30 | PK | Horizontal |
| 3 | 3505.37 | 61.80 | 5.74 | 29.51 | -40.15 | 56.90 | - | - | PK | Horizontal |
| 4 | 3877.38 | 47.34 | 5.82 | 30.45 | -40.38 | 43.23 | 74.00 | 30.77 | PK | Horizontal |
| 5 | 4941.35 | 45.91 | 7.75 | 32.77 | -40.10 | 46.33 | 74.00 | 27.67 | PK | Horizontal |
| 6 | 11424.52 | 41.01 | 10.03 | 39.08 | -39.29 | 50.83 | 74.00 | 23.17 | PK | Horizontal |
| 7 | 15443.64 | 37.77 | 13.36 | 38.66 | -39.03 | 50.76 | 74.00 | 23.24 | PK | Horizontal |

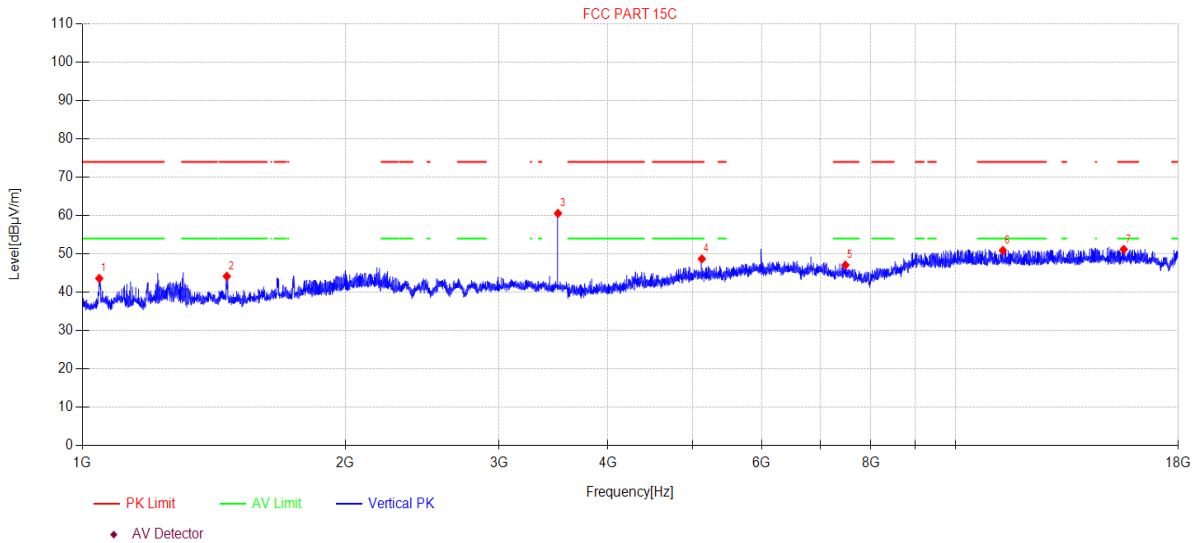
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\10
Memo: DH5 2480

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| N O. | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 1045.51 | 51.95 | 3.06 | 25.49 | -36.89 | 43.61 | 74.00 | 30.39 | PK | Vertical |
| 2 | 1463.62 | 51.17 | 4.38 | 25.57 | -36.94 | 44.18 | 74.00 | 29.82 | PK | Vertical |
| 3 | 3505.37 | 65.46 | 5.74 | 29.51 | -40.15 | 60.56 | - | - | PK | Vertical |
| 4 | 5123.12 | 47.82 | 8.04 | 32.90 | -40.06 | 48.70 | 74.00 | 25.30 | PK | Vertical |
| 5 | 7480.99 | 44.90 | 7.64 | 36.44 | -41.90 | 47.08 | 74.00 | 26.92 | PK | Vertical |
| 6 | 11332.44 | 41.08 | 9.95 | 39.10 | -39.25 | 50.88 | 74.00 | 23.12 | PK | Vertical |
| 7 | 15587.13 | 37.87 | 14.01 | 38.43 | -39.11 | 51.20 | 74.00 | 22.80 | PK | Vertical |

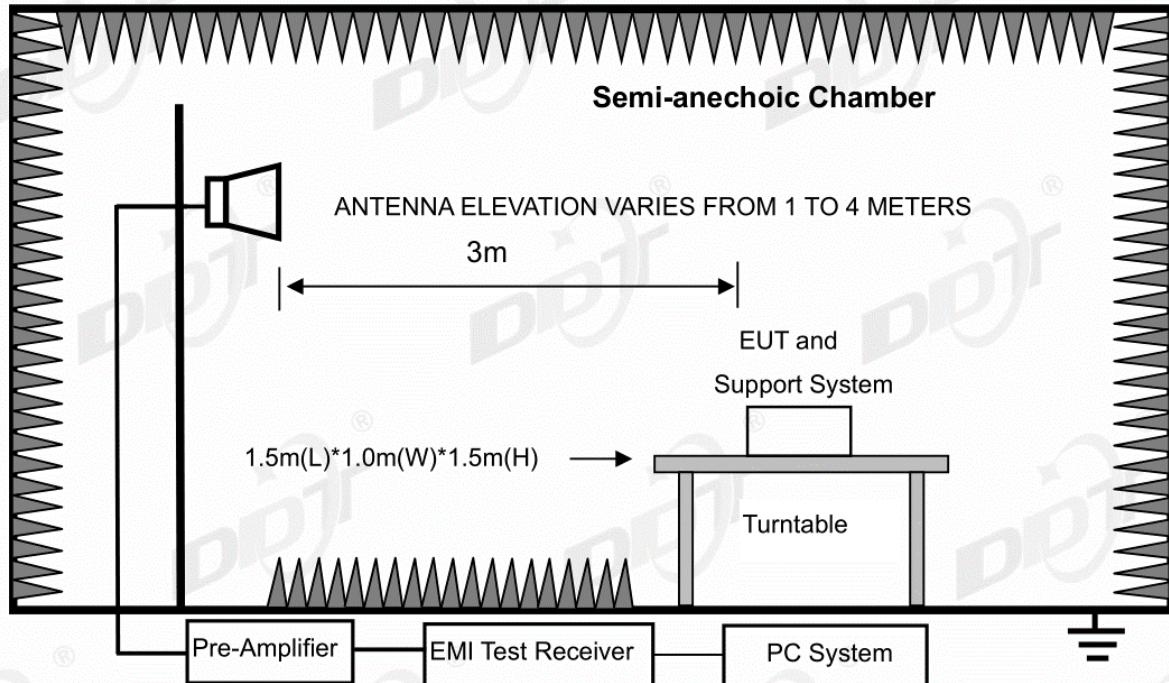
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Band Edge Compliance (Radiated Method)

14.1. Block diagram of test setup

In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



14.2. Limit

All restriction band should comply with 15.209 limits, other emission should be at least 20 dB below the fundamental.

14.3. Test Procedure

Same with Radiated Emission except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

14.4. Test result

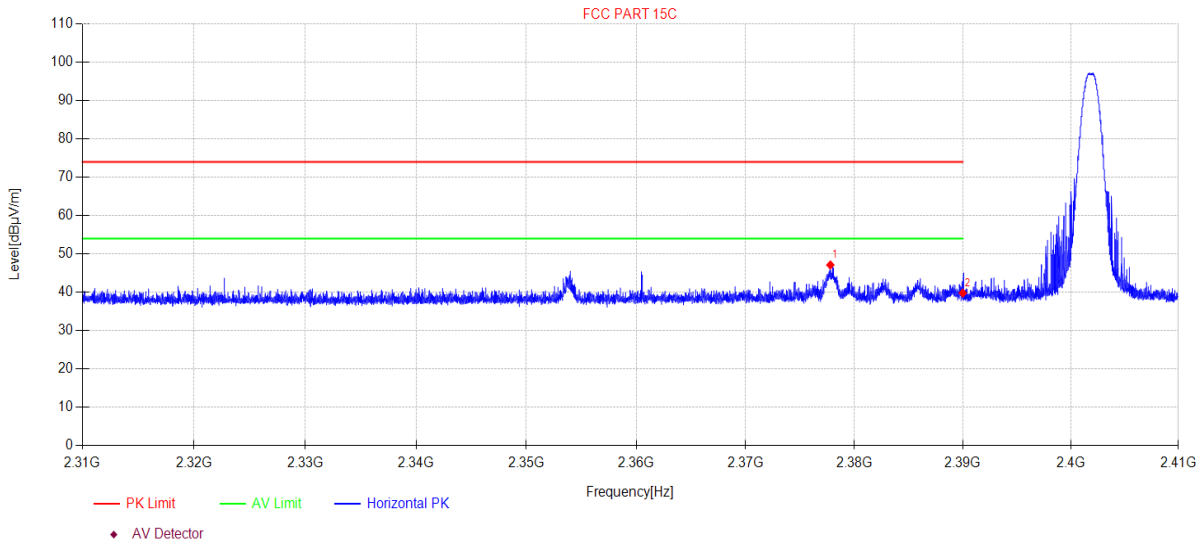
Pass. (See below detailed test result)

Remark: hopping on and hopping off mode all have been test, hopping off mode is worse and reported only. Scan with all mode, the worst case is recorded in this report.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\11
Memo: DH5 2402

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2377.79 | 53.88 | 3.86 | 27.46 | -38.08 | 47.12 | 74.00 | 26.88 | PK | Horizontal |
| 2 | 2390.00 | 46.56 | 3.87 | 27.48 | -38.11 | 39.80 | 74.00 | 34.20 | PK | Horizontal |

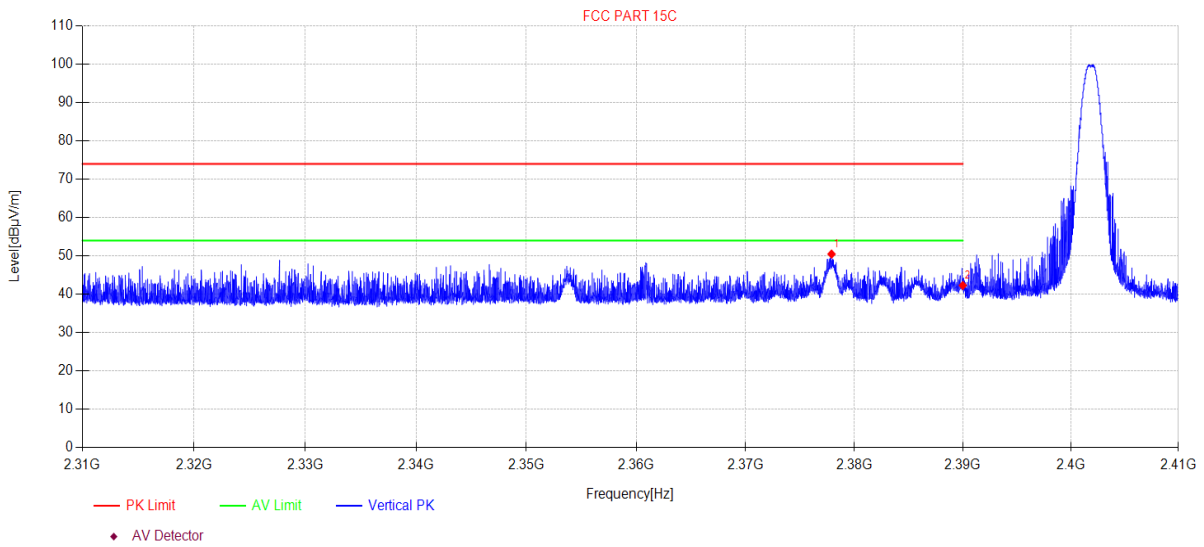
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\12
Memo: DH5 2402

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2377.90 | 57.24 | 3.86 | 27.46 | -38.08 | 50.48 | 74.00 | 23.52 | PK | Vertical |
| 2 | 2390.00 | 49.07 | 3.87 | 27.48 | -38.11 | 42.31 | 74.00 | 31.69 | PK | Vertical |

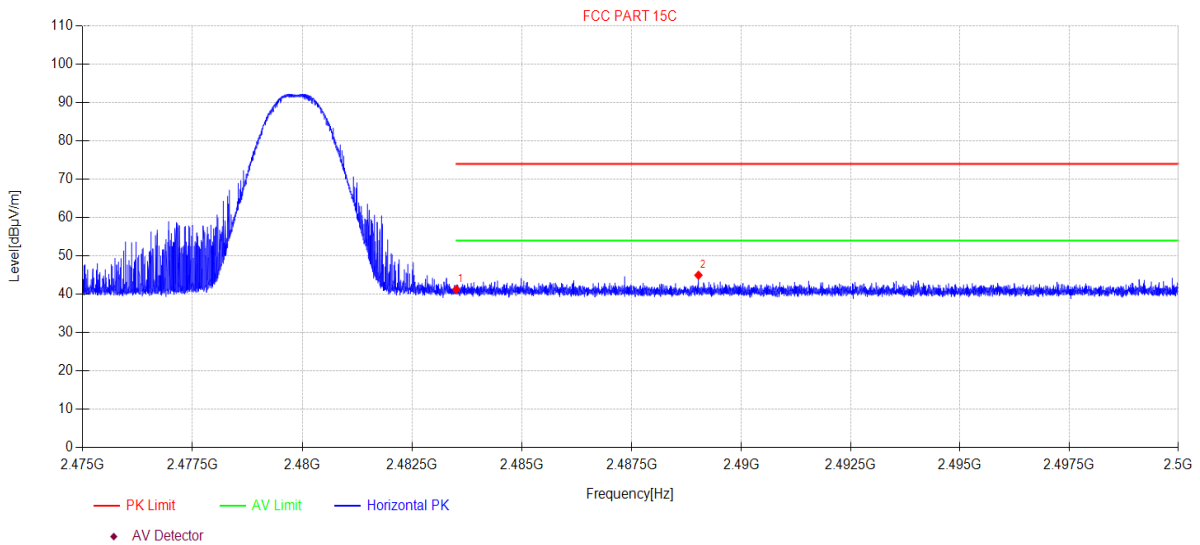
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\17
Memo: DH5 2480

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2483.50 | 47.98 | 3.94 | 27.73 | -38.38 | 41.27 | 74.00 | 32.73 | PK | Horizontal |
| 2 | 2489.02 | 51.66 | 3.94 | 27.76 | -38.39 | 44.97 | 74.00 | 29.03 | PK | Horizontal |

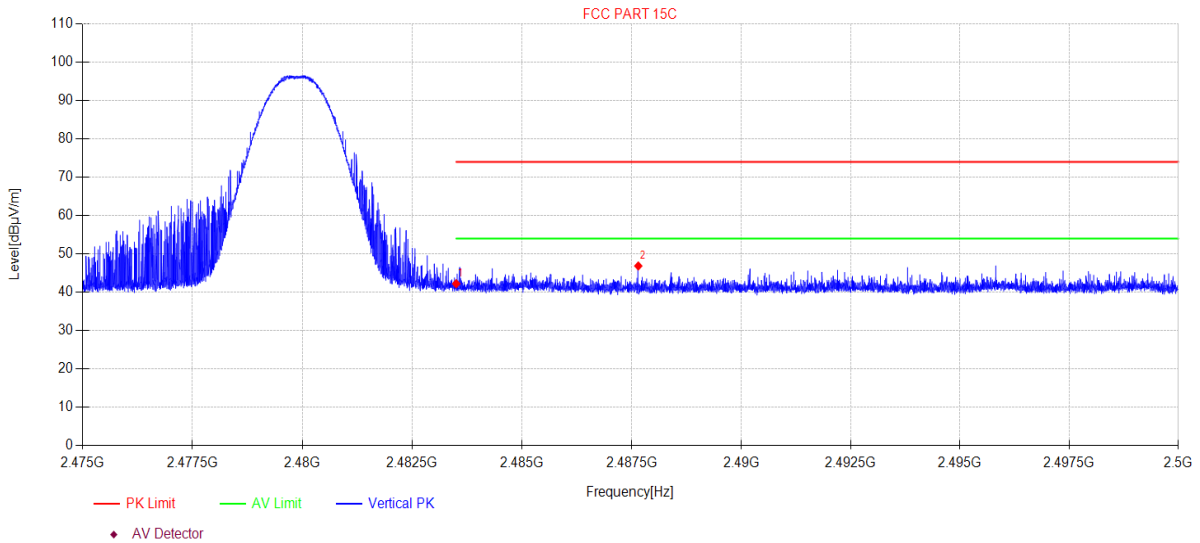
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\18
Memo: DH5 2480

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2483.50 | 48.94 | 3.94 | 27.73 | -38.38 | 42.23 | 74.00 | 31.77 | PK | Vertical |
| 2 | 2487.65 | 53.56 | 3.94 | 27.75 | -38.39 | 46.86 | 74.00 | 27.14 | PK | Vertical |

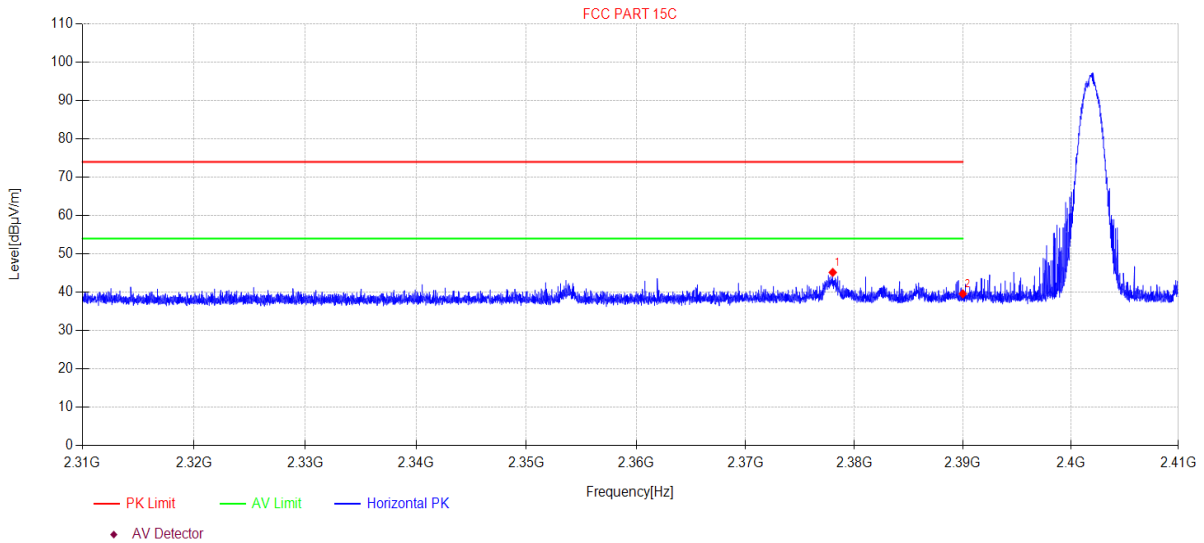
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\13
Memo: 2DH5 2402

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2378.01 | 51.94 | 3.86 | 27.46 | -38.08 | 45.18 | 74.00 | 28.82 | PK | Horizontal |
| 2 | 2390.00 | 46.37 | 3.87 | 27.48 | -38.11 | 39.61 | 74.00 | 34.39 | PK | Horizontal |

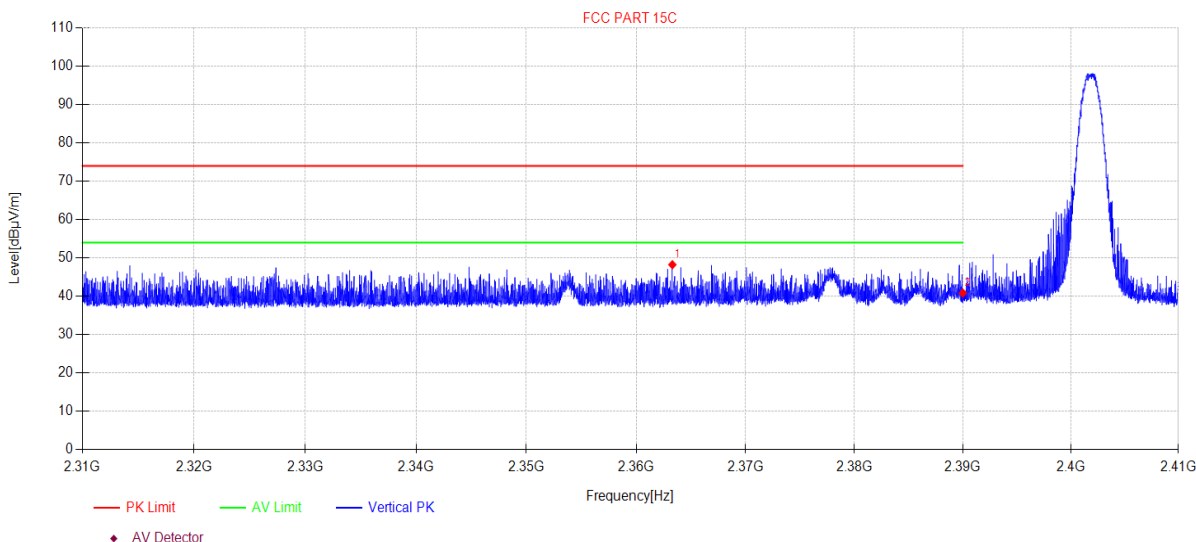
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\14
Memo: 2DH5 2402

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2363.31 | 54.99 | 3.85 | 27.43 | -38.04 | 48.23 | 74.00 | 25.77 | PK | Vertical |
| 2 | 2390.00 | 47.61 | 3.87 | 27.48 | -38.11 | 40.85 | 74.00 | 33.15 | PK | Vertical |

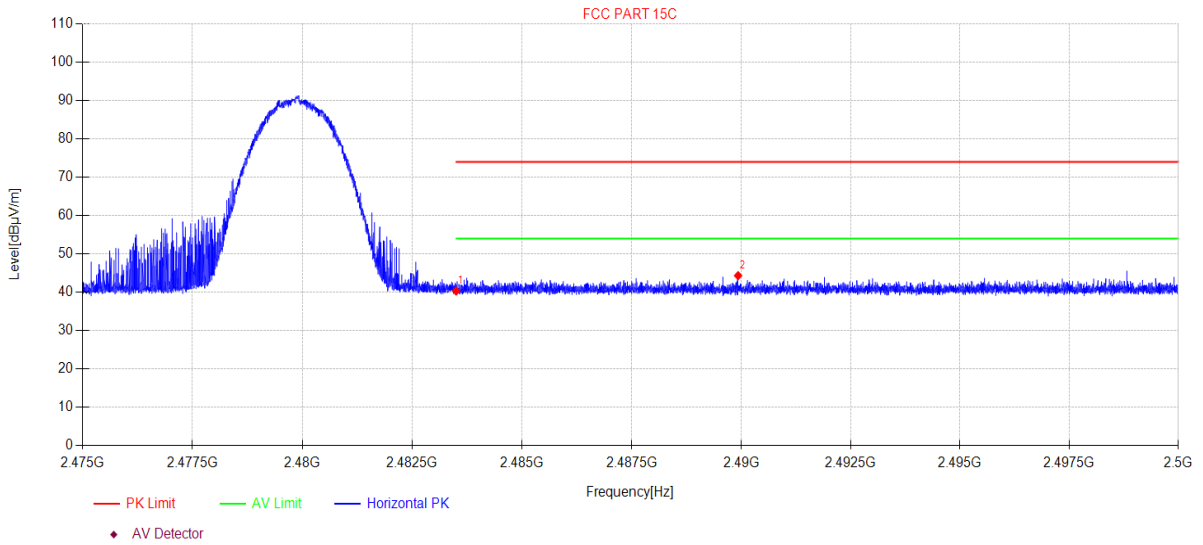
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\19
Memo: 2DH5 2480

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2483.50 | 47.05 | 3.94 | 27.73 | -38.38 | 40.34 | 74.00 | 33.66 | PK | Horizontal |
| 2 | 2489.93 | 51.03 | 3.94 | 27.76 | -38.40 | 44.33 | 74.00 | 29.67 | PK | Horizontal |

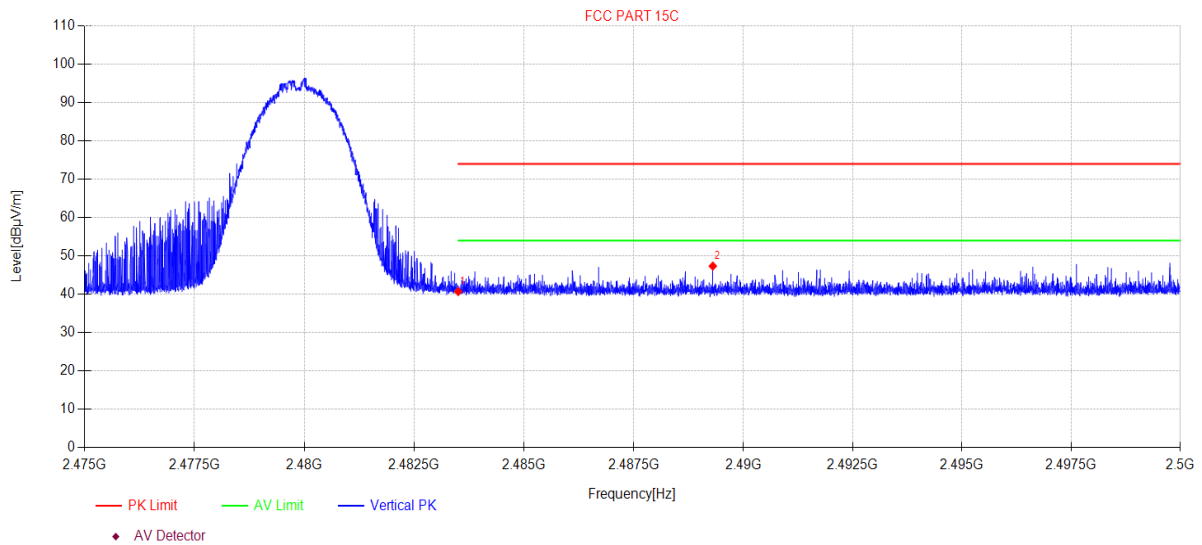
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\20
Memo: 2DH5 2480

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2483.50 | 47.43 | 3.94 | 27.73 | -38.38 | 40.72 | 74.00 | 33.28 | PK | Vertical |
| 2 | 2489.31 | 54.04 | 3.94 | 27.76 | -38.39 | 47.35 | 74.00 | 26.65 | PK | Vertical |

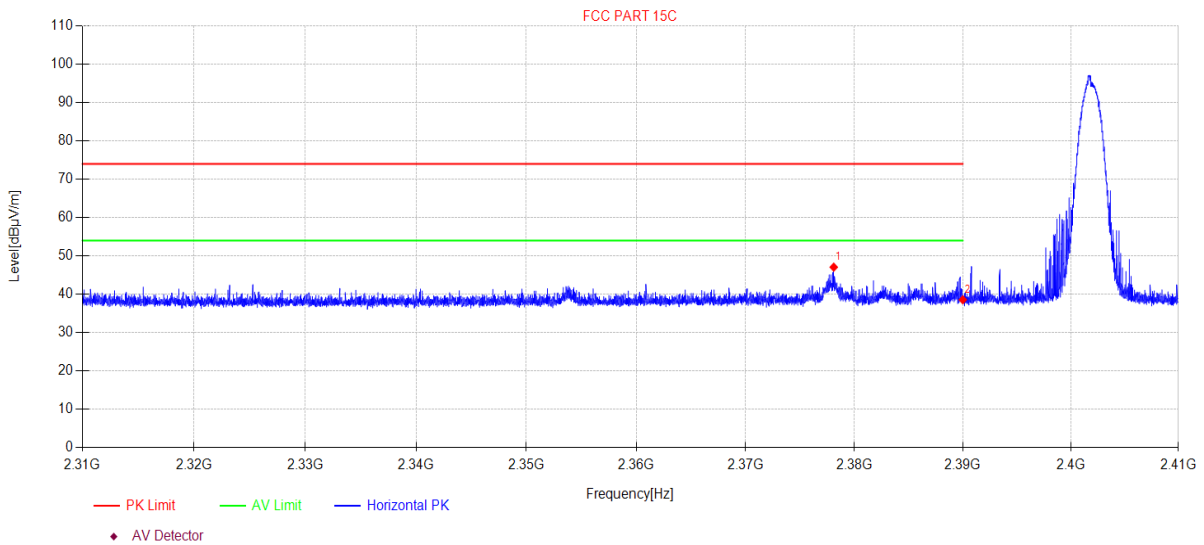
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\15
Memo: 3DH5 2402

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2378.10 | 53.83 | 3.86 | 27.46 | -38.08 | 47.07 | 74.00 | 26.93 | PK | Horizontal |
| 2 | 2390.00 | 45.33 | 3.87 | 27.48 | -38.11 | 38.57 | 74.00 | 35.43 | PK | Horizontal |

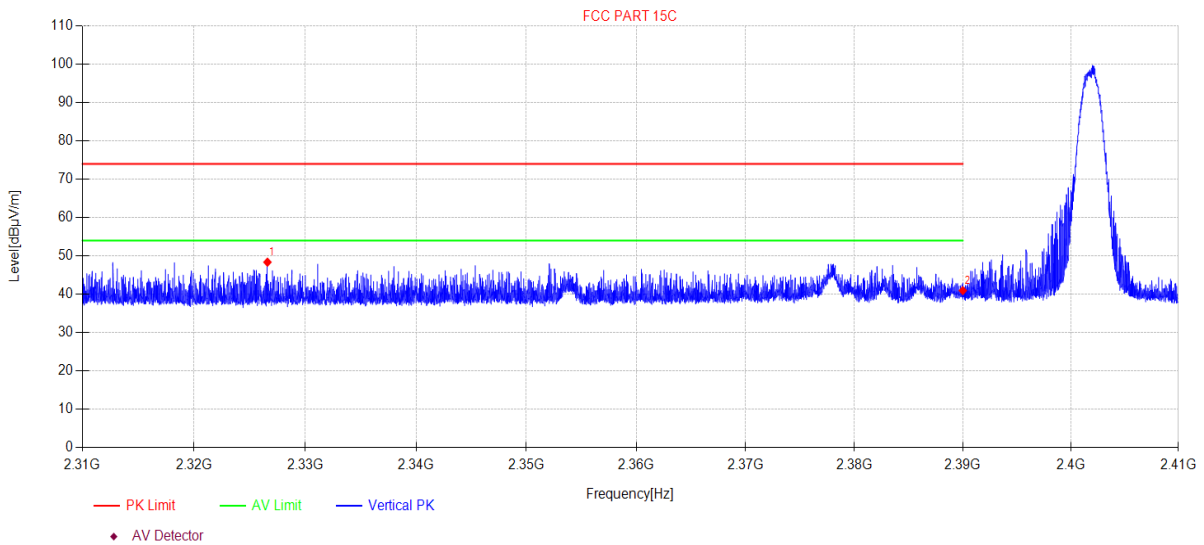
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\16
Memo: 3DH5 2402

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| NO | Freq. [MHz] | Reading [dBµV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2326.59 | 55.13 | 3.82 | 27.35 | -37.93 | 48.37 | 74.00 | 25.63 | PK | Vertical |
| 2 | 2390.00 | 47.73 | 3.87 | 27.48 | -38.11 | 40.97 | 74.00 | 33.03 | PK | Vertical |

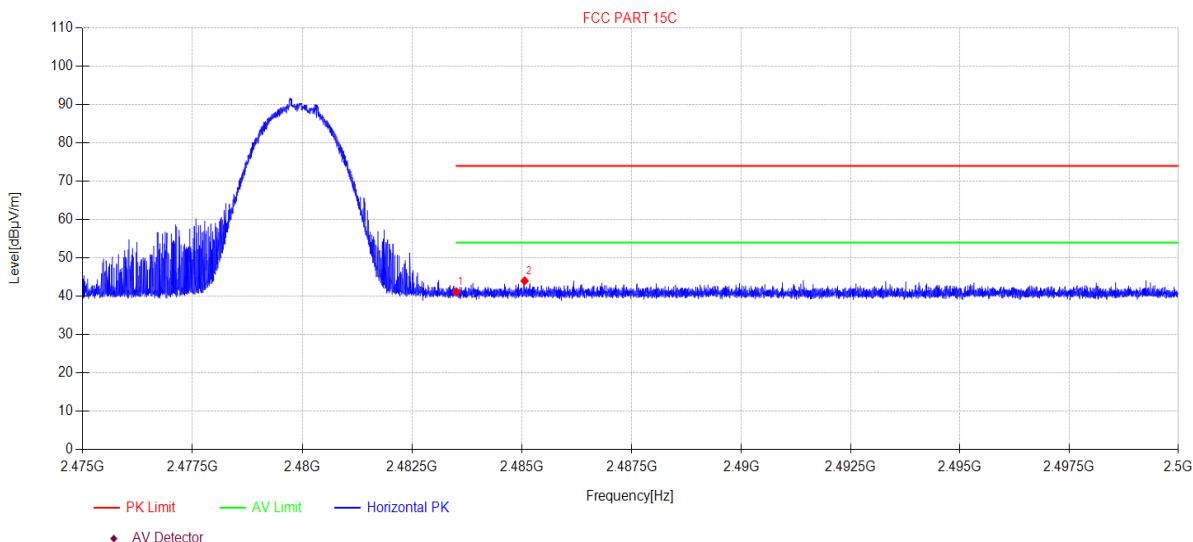
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\21
Memo: 3DH5 2480

Test Graph



| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|------------|
| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2483.50 | 47.81 | 3.94 | 27.73 | -38.38 | 41.10 | 74.00 | 32.90 | PK | Horizontal |
| 2 | 2485.06 | 50.71 | 3.94 | 27.74 | -38.38 | 44.01 | 74.00 | 29.99 | PK | Horizontal |

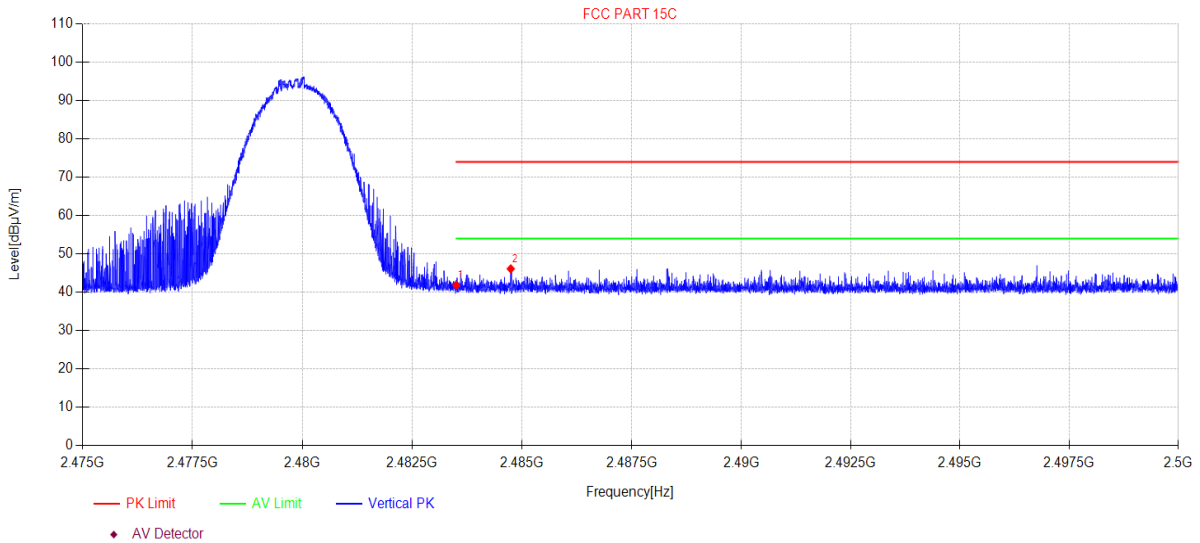
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-01 **Tested By:** Johnson Huang
EUT: HIDEAWAY AUDIO SOLUTION **Model Number:** SST-V
Test Mode: TX Mode **Power Supply:** DC 12V
Condition: Temp:28.4°C;Humi:68.6% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23081708-2E SST-V\FCC ABOVE 1G\22
Memo: 3DH5 2480

Test Graph



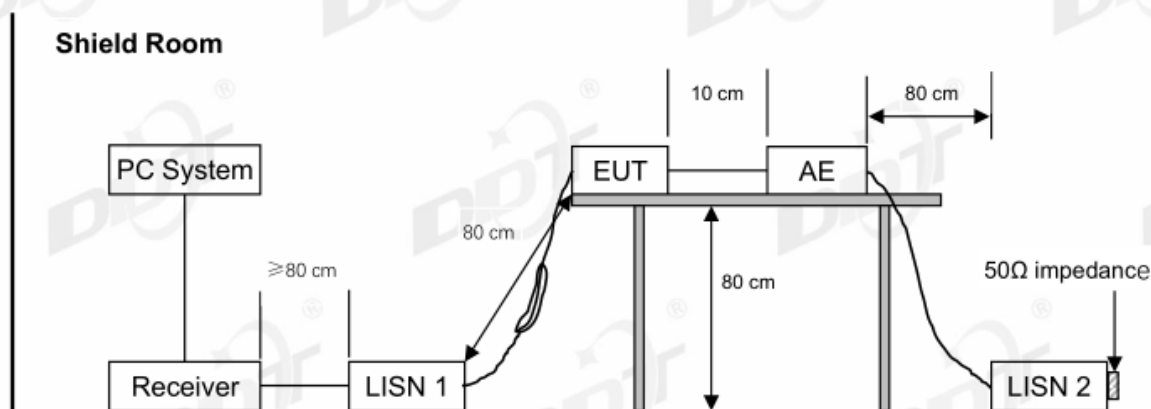
| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|-----------------|---------------------|----------|----------------|----------------|-------------|----------|----------|
| NO | Freq. [MHz] | Reading [dBμV/m] | Cable loss [dB] | Antenna Factor [dB] | AMP [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Detector | Polarity |
| 1 | 2483.50 | 48.57 | 3.94 | 27.73 | -38.38 | 41.86 | 74.00 | 32.14 | PK | Vertical |
| 2 | 2484.74 | 52.82 | 3.94 | 27.74 | -38.38 | 46.12 | 74.00 | 27.88 | PK | Vertical |

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

15. Power Line Conducted Emission

15.1. Block diagram of test setup



15.2. Power line conducted emission limits

| Frequency | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
|-------------------|----------------------------|-------------------------|
| 150 kHz ~ 500 kHz | 66 ~ 56* | 56 ~ 46* |
| 500 kHz ~ 5 MHz | 56 | 46 |
| 5 MHz ~ 30 MHz | 60 | 50 |

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

15.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest

emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

15.4. Test result

N/A

This product is powered by DC.

16. Antenna Requirements

16.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

16.2. Result

The antenna used for this product is Dual-frequency copper tube antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3.08 dBi.

18. Photos of the EUT

Please refer to appendix I.

END OF REPORT