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Report No.: TMTN2601000116NR

FCC ID: 2AWUU60B2501
Ref. No.: TMTN2412001326NR

Page: 1 / 32
Rev.: 00

FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10: 2020

TEST REPORT

(Class II Permissive Change Report)

For

Wireless Smoke and CO Detector

Model: FD52-HW

Brand: Verkada

Issued for

Verkada Inc

405 E. 4th Ave., San Mateo, California, United States, 94401

Issued by

Compliance Certification Services Inc.

Tainan Lab.

No. 168, Ln. 523, Sec. 3, Zhongzheng Rd.,
Rende Dist., Tainan City, 717017, Taiwan

Issued Date: February 10, 2026

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REVISION HISTORY

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	February 10, 2026	See the following note rev.00	ALL	Gina Lin

Note:

※ Rev.00 Issue Date: February 10, 2026
 Revised Class II Permissive Change Report and the description is shown in page 7. (3.2 DESCRIPTION OF CLASS II CHANGE)

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1. TEST REPORT CERTIFICATION

Applicant : Verkada Inc
405 E. 4th Ave., San Mateo, California, United States, 94401
Manufacturer : Vision Automobile Electronics Industrial Co., Ltd.
No. 78, Gongye 3rd Rd., Technology Industrial Park, Tainan City, 709, Taiwan
Equipment Under Test : Wireless Smoke and CO Detector
Model : FD52-HW
Brand : Verkada
Date of Test : January 27, 2026

APPLICABLE STANDARD	
STANDARD	TEST RESULT
FCC Part 15 Subpart C AND ANSI C63.10: 2020	No non-compliance noted

Statements of Conformity
Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

FCC Standard Section	Report Section	Test Item	Result
15.247(a)	-	6dB BANDWIDTH	-
15.247(b)	8.1	MAXIMUM PEAK OUTPUT POWER	Pass
-	-	DUTY CYCLE	-
15.247(e)	-	POWER SPECTRAL DENSITY	-
15.247(d)	-	CONDUCTED SPURIOUS EMISSION	-
15.205(a)	8.2	RADIATED EMISSIONS	Pass
15.207(a)	-	POWERLINE CONDUCTED EMISSIONS	-

Approved by:



John Chen
Supervisor

2. EUT DESCRIPTION

2.1 DESCRIPTION OF EUT & POWER

Product Name	Wireless Smoke and CO Detector
Model	FD52-HW
Brand	Verkada
Received Date	January 27, 2026
Frequency Range	915.0MHz ~915.7MHz
Transmit Power	15.60 dBm (36.274mW)
Channel Spacing	0.35 MHz
Channel Number	3 Channels
Transmit Data Rate	80kbps
Type of Modulation	OQPSK
Antenna Type	Type: PCB Antenna Model: Koopa RF Board Manufacturer: N/A Gain: -2.72 dBi
Power Rating	3 VDC (Powered by Battery)
RF Module Brand /Model	EFR32FG23B020F512GM48 / Silicon Labs
Software Version	Rev.0
Firmware Version	Rev.0
Temperature Range	-20°C ~ +60°C
Reported Date	February 03, 2026

REMARK:

- The sample (FD52-HW) selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- This submittal(s) (test report) is intended for FCC ID: **2AWUU60B2501**, filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.
- For more details, please refer to the User's manual of the EUT.

2.2 DESCRIPTION OF CLASS II CHANGE

The major change filed under this application is:

- The only product change is the removal of the G-sensor (accelerometer) circuitry and associated components.
- RF CONNECTOR changed from MM8430-2610 to MM8130-2600
- Aside from the above, the remaining PCB layout (Layout) is unchanged.
- Updated Peak Power 、 Below 1G and Above 1G Spurious emissions test data for verification test.

Since the above changes do not influence the RF characteristics, after evaluated, the testing items of the data could be used and showed as original application document reports (report number: TMTN2412001326NR).

3. DESCRIPTION OF TEST MODES

The EUT is a Wireless Smoke and CO Detector.

The RF chipset is manufactured by Silicon Labs.

The antenna peak gain -2.72 dBi (highest gain) were chosen for full testing.

There are three channels have been tested as following :

Channel	Frequency (MHz)
Low	915
Middle	915.35
High	915.7

Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Tested Channel	Modulation Technology	Modulation Type
Low, Mid, High	OFDM	OQPSK

Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Tested Channel	Modulation Technology	Modulation Type
Low, Mid, High	OFDM	OQPSK

Bandedge Measurement :

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Tested Channel	Modulation Technology	Modulation Type
Low, Mid, High	OFDM	OQPSK

Antenna Port Conducted Measurement :

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Tested Channel	Modulation Technology	Modulation Type
Low, Mid, High	OFDM	OQPSK

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 and FCC CFR 47 15.207, 15.209 and 15.247.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☐ No.8, Jiucengling, Xinhua Dist., Tainan City 712, Taiwan (R.O.C.)

☒ No. 168, Ln. 523, Sec. 3, Zhongzheng Rd., Rende Dist., Tainan City 717017, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by Taiwan Accreditation Foundation for the specific scope of accreditation under Lab Code: 1109 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by TAF or any agency of the Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: TW1109).

5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan

TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada

Industry Canada (TW1109)

Germany

TUV NORD

Taiwan

BSMI

USA

FCC

5.5 MEASUREMENT EQUIPMENT USED

For §8.2

Chamber 1166 Room (Radiation Test)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Band Reject Filter	MICRO-TRONICS	HPM13525	006	01/13/2026	01/12/2027
Bilog Antenna with 6dB Attenuator	SUNOL SCIENCES & EMC	JB1 & N-6-06	A021306 & AT-N0682	10/08/2025	10/07/2026
Cable	EMCI	EM102-KMKM	CB1166-01	01/13/2026	01/12/2027
Double Ridged Guide Horn Antenna	ETS.LINDGREN	3117	00078733	04/28/2025	04/27/2026
EMI Test Receiver	R&S	ESCI 7	100856	06/23/2025	06/22/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/24/2025	07/23/2026
Pre-Amplifier	EMEC	EM01G40GA	060919/S02-130417-307	05/06/2025	05/05/2026
Software	Excel(ccs-o6-2020 v1.1) , e3(v6.101222)				

For §8.1

Chamber 1166 Room (Conducted Test)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/24/2025	07/23/2026
SMA Cable+10dB Attenuator	CCS	SMA+10dB ATT	SMA/10dB	01/13/2026	01/12/2027
Software	Excel(ccs-o6-2020 v1.1)				

6. CALIBRATION AND UNCERTAINTY

6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

6.2 MEASUREMENT UNCERTAINTY

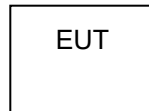
Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Measurement	Uncertainty
AC Powerline Conducted Emission	$\pm 2.21\text{dB}$
Channel Bandwidth	$\pm 2.87\%$
RF output power (Spectrum)	$\pm 2.88\text{dB}$
RF Output power (Power Meter & Power sensor)	$\pm 0.243\text{dB}$
Power Density	$\pm 2.87\text{dB}$
Conducted Bandedge	$\pm 2.87\text{dB}$
Conducted Spurious Emission	$\pm 2.88\text{dB}$
Channel Separation	$\pm 2.87\text{dB}$
In-Band Emission (Channel Mask)	$\pm 2.88\text{dB}$
Frequency Stability	$\pm 0.03\text{ ppm}$

Uncertainty figures are valid to a confidence level of 95%, K=2

7. SETUP OF EQUIPMENT UNDER TEST

7.1 SETUP CONFIGURATION OF EUT



7.2 SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1	N/A	N/A	N/A	N/A	N/A

No.	Signal cable description	
A	N/A	N/A

REMARK:

1. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7.3 EUT OPERATING CONDITION

RF Setup

1. Set up a whole system as the setup diagram.
2. Turn on power.

8. APPLICABLE LIMITS AND TEST RESULTS

8.1 MAXIMUM PEAK OUTPUT POWER

LIMIT

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section , if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section , as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP



TEST PROCEDURE

The tests were performed in accordance with KDB 558074 D01 v05r02 8.3.1.

11.9.1.1(ANSI C63.10) Measurement Procedure PK2:

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq$ $[3 \times \text{RBW}]$.
- c) Set span $\geq$ $[3 \times \text{RBW}]$.
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

TEST RESULTS

No non-compliance noted

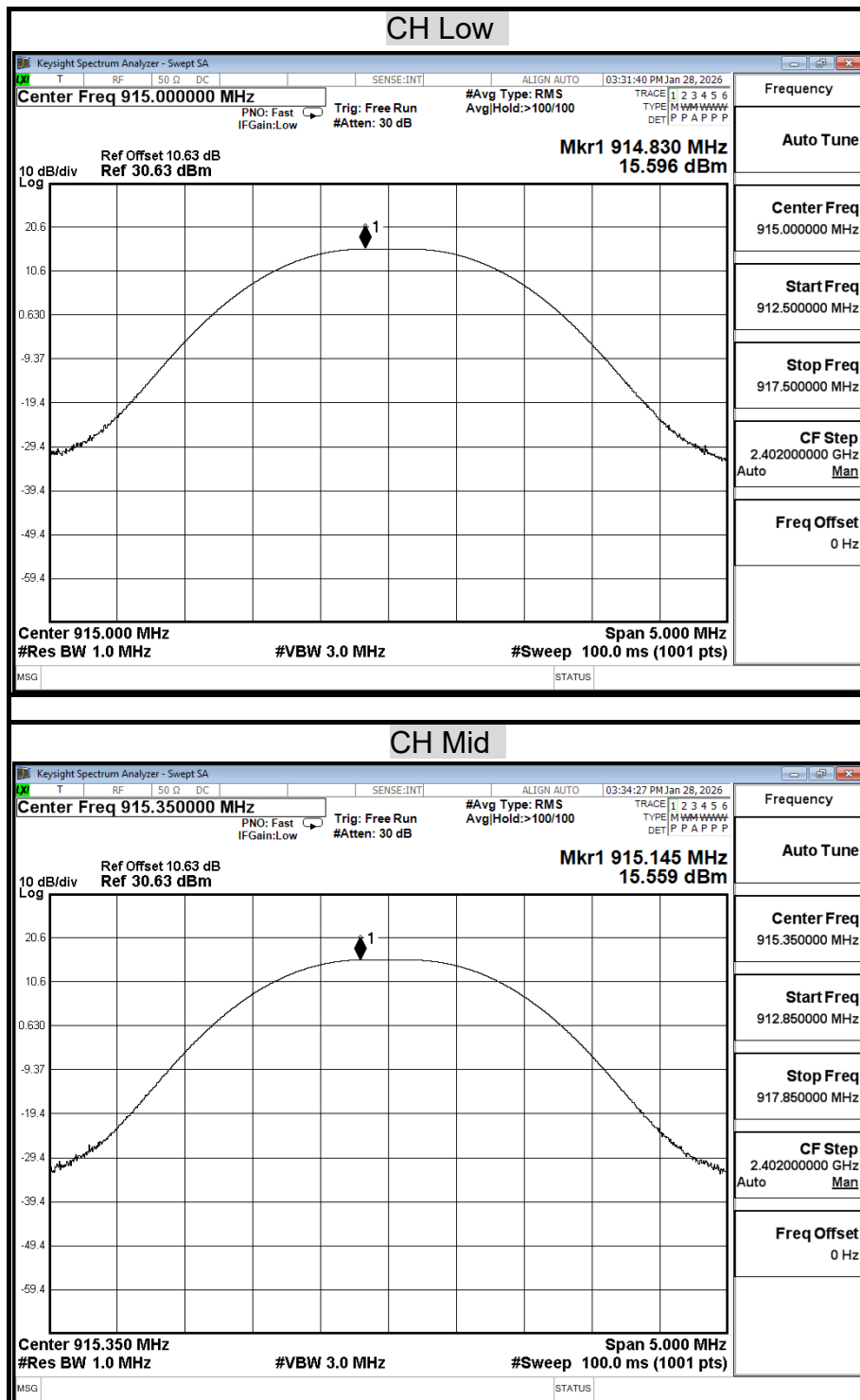
Model Name	FD52-HW	Test By	Ted Huang
Temp & Humidity	23.4°C, 54%	Test Date	2026/01/27

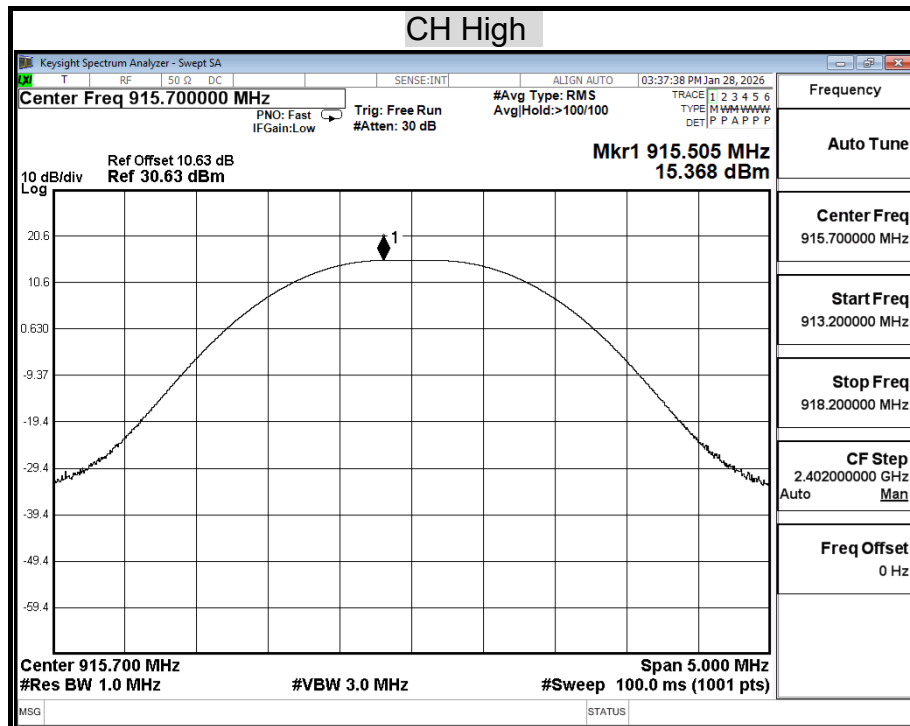
TX mode

Channel	Channel Frequency (MHz)	Peak Power (dBm)	Peak Power Limit (dBm)	Pass / Fail
Low	915	15.60	30.00	PASS
Middle	915.35	15.56	30.00	PASS
High	915.7	15.37	30.00	PASS

NOTE : 1. The cable assembly insertion loss of 10.84dB was entered as an offset in the spectrum analyzer to allow for direct reading of power.

MAXIMUM PEAK OUTPUT POWER





8.2 RADIATED EMISSIONS

8.2.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS

LIMITS

§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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	2655 - 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 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

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

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§ 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

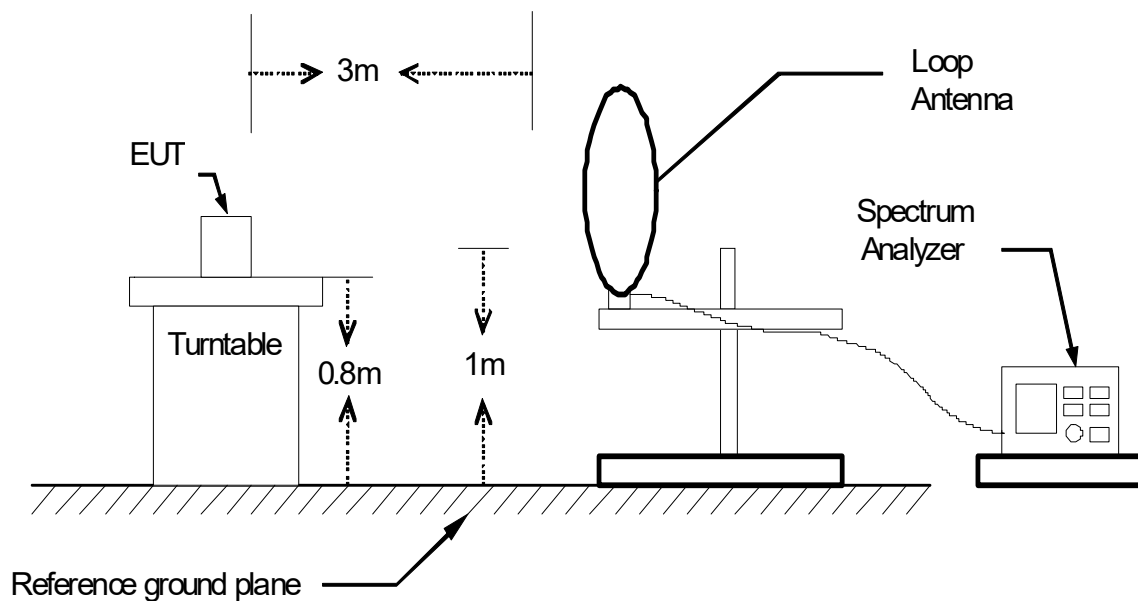
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this Part, e-g, Sections 15.231 and 15.241.

§ 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

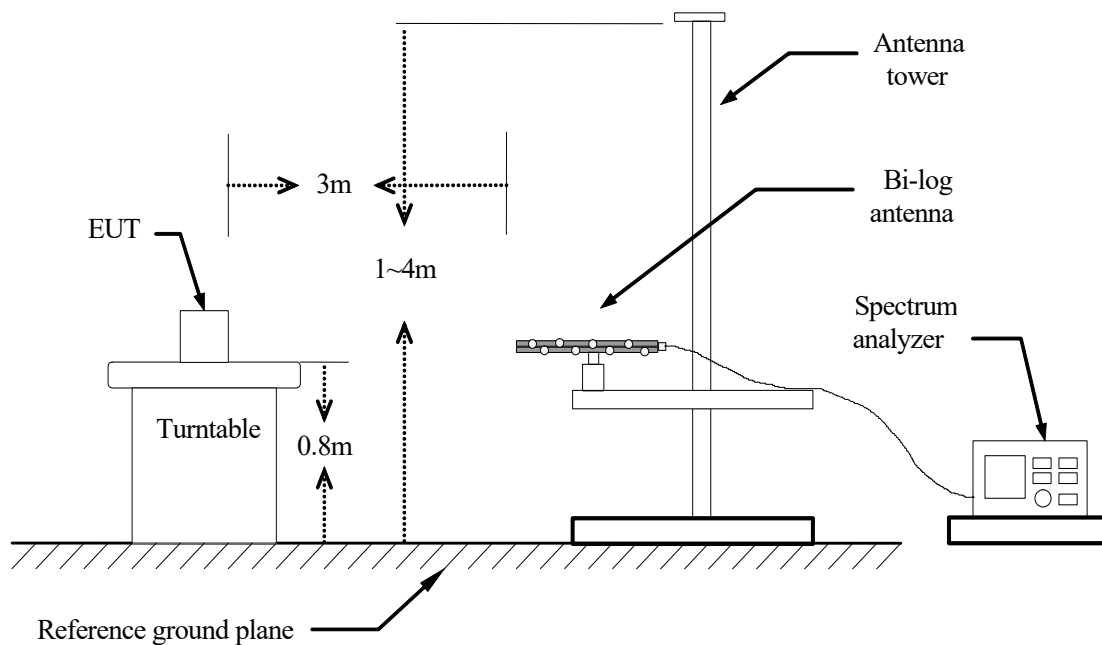
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 to 1GHz.

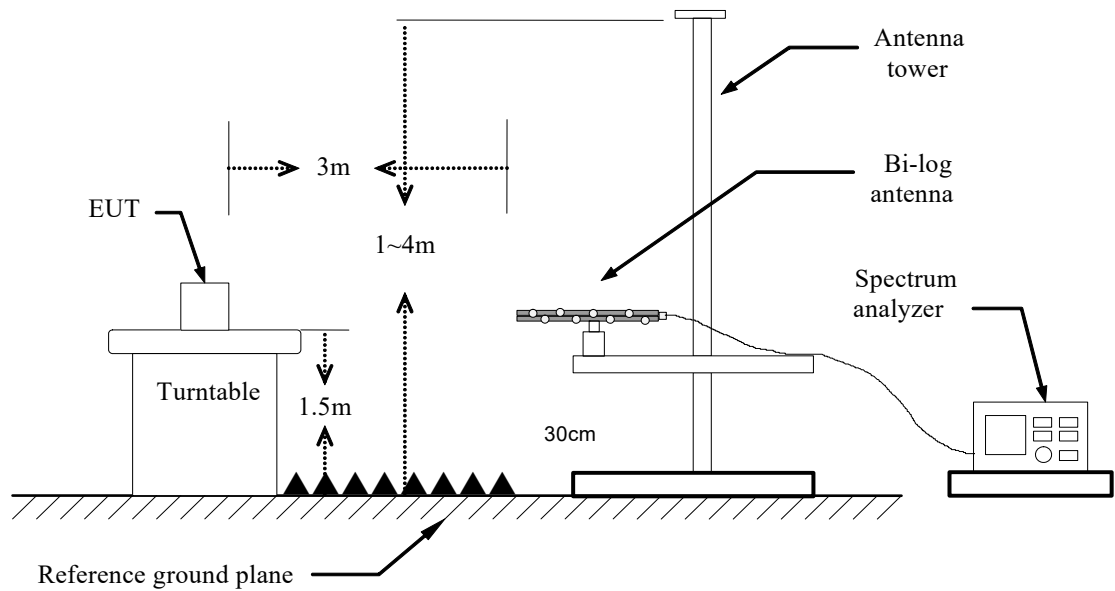
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. While measuring the radiated emission below 1GHz, the EUT was set 3/10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The tests were performed in accordance with KDB 558074 D01 v05r02.

NOTE :

- 1.The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz for Average detection (AV) and Quasi-peak detection (QP) at frequency 9kHz~30Hz.
- 2.The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency 30MHz~1GHz.
- 3.The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 4.Average value=Peak value + Duty factor.
- 5.Obtain Z-axis for worst-case emission in test.

TEST RESULTS

No non-compliance noted.

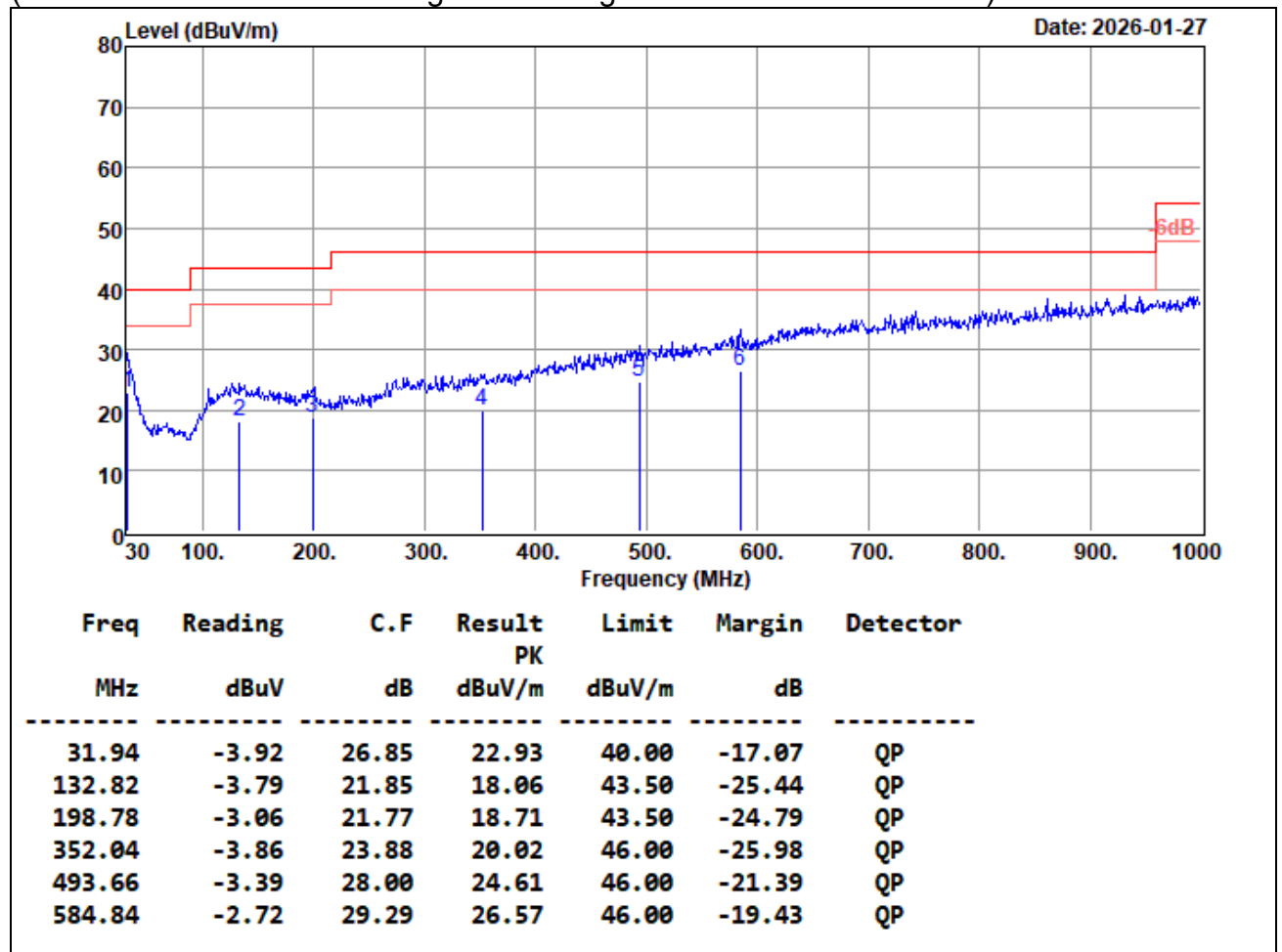
8.2.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

Below 1GHz(30MHz ~ 1GHz)

Product Name	Wireless Smoke and CO Detector	Test Date	2026/01/27
Model	FD52-HW	Test By	Ted Huang
Test Mode	TX	TEMP& Humidity	23.4°C, 54%

Horizontal

(The chart below shows the highest readings taken from the final data.)



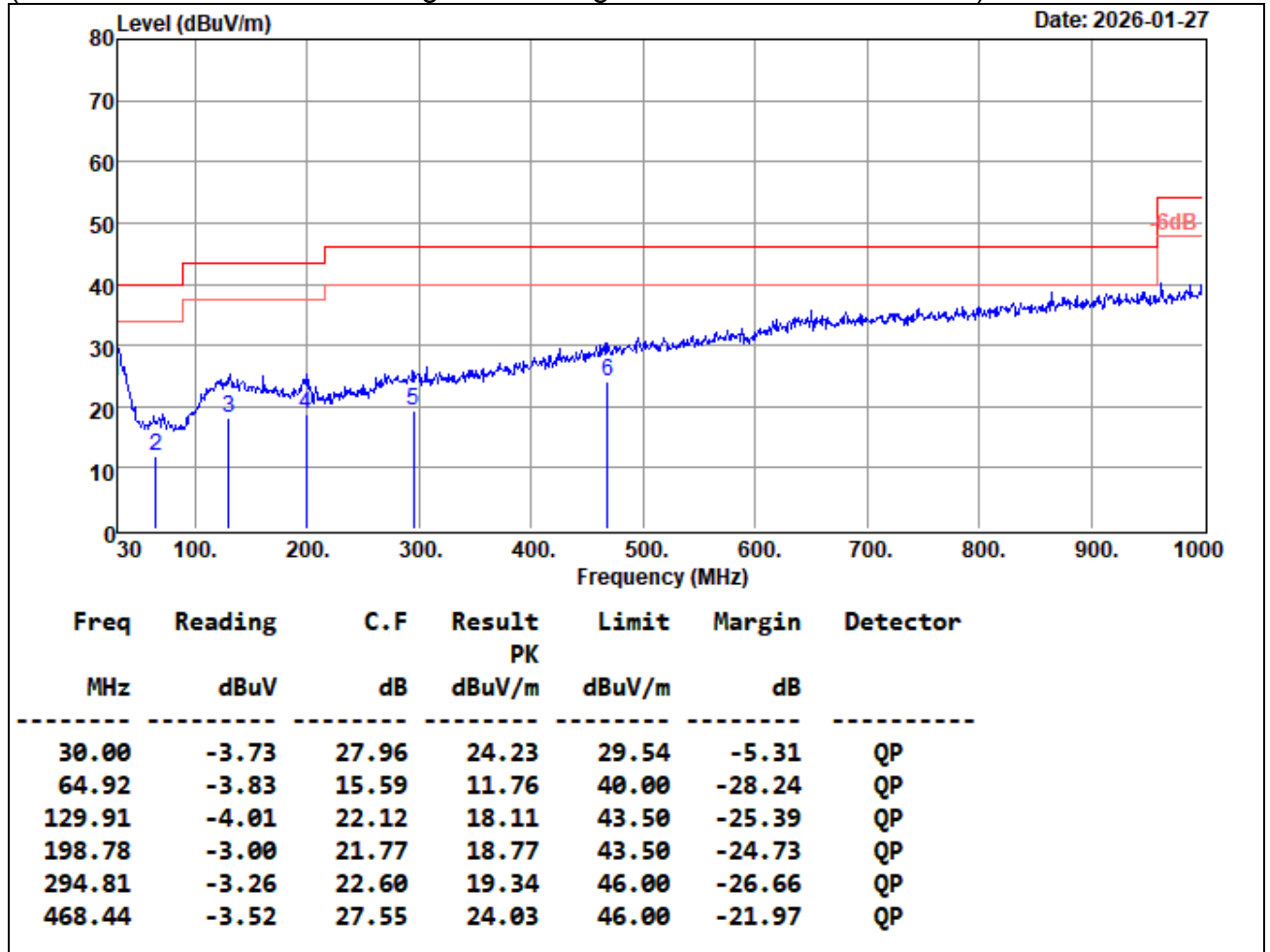
Remark:

1. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
2. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>10dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result (Emission at 3m Level) = Receiver Reading + C.F
C.F = Antenna Factor +Cable Loss
Margin= Result -Limits
5. That the limit for signals below 1GHz is a QP limit and peak readings are below the QP limit.
6. The fundamental signal is not shown in the test data because measurements at fundamental frequency are shown separately and were ignored during the 30 – 1000 MHz scan.

Product Name	Wireless Smoke and CO Detector	Test Date	2026/01/27
Model	FD52-HW	Test By	Ted Huang
Test Mode	TX	TEMP& Humidity	23.4℃, 54%

Vertical

(The chart below shows the highest readings taken from the final data.)



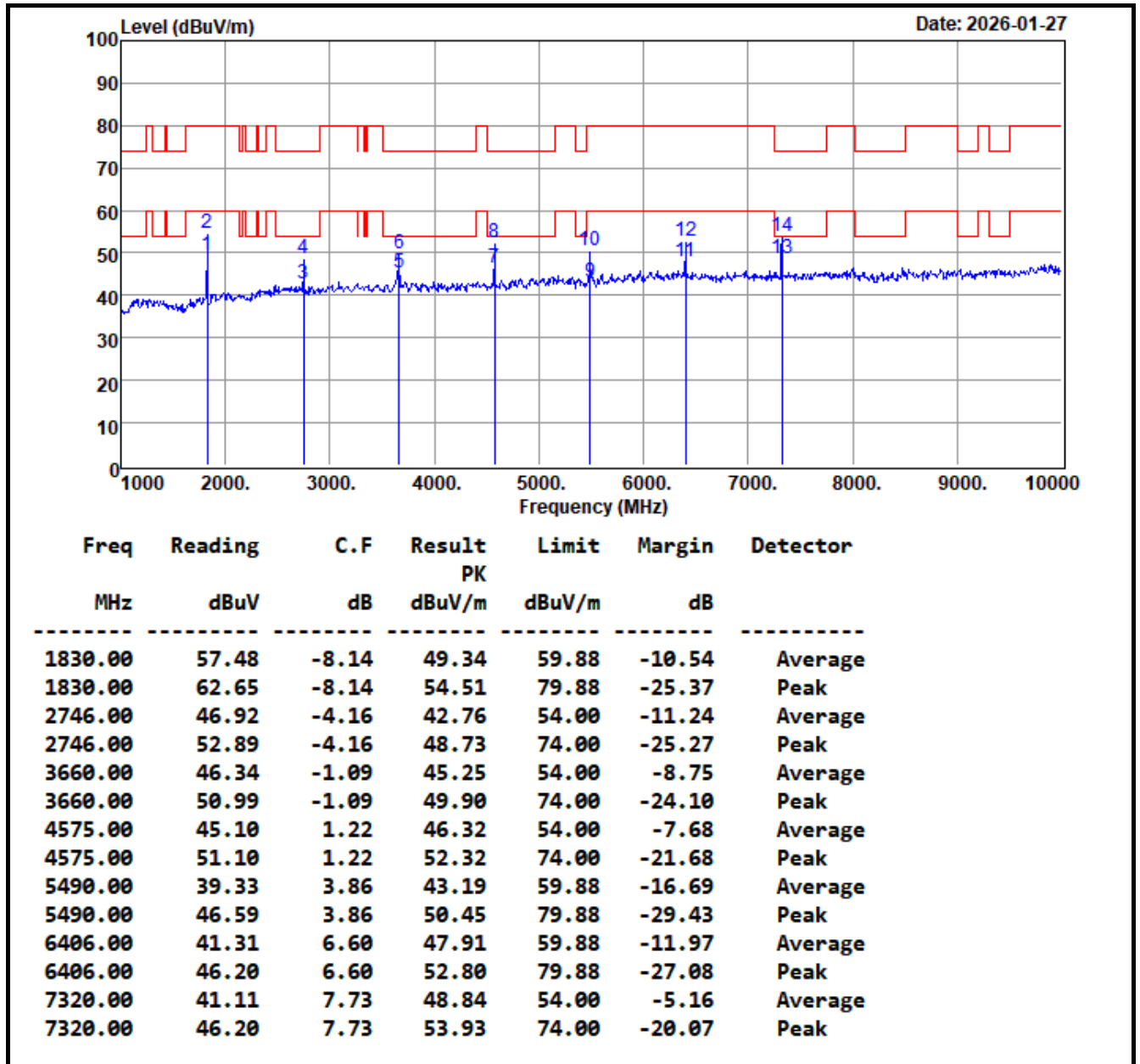
Remark:

- Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
- Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>10dB from the applicable limit) and considered that's already beyond the background noise floor.
- Result (Emission at 3m Level) = Receiver Reading + C.F
C.F = Antenna Factor +Cable Loss
Margin= Result -Limits
- That the limit for signals below 1GHz is a QP limit and peak readings are below the QP limit.
- The fundamental signal is not shown in the test data because measurements at fundamental frequency are shown separately and were ignored during the 30 – 1000 MHz scan.

8.2.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

Product Name	Wireless Smoke and CO Detector	Test Date	2026/01/27
Model	FD52-HW	Test By	Ted Huang
Test Mode	TX	TEMP& Humidity	23.4℃, 54%

Horizontal

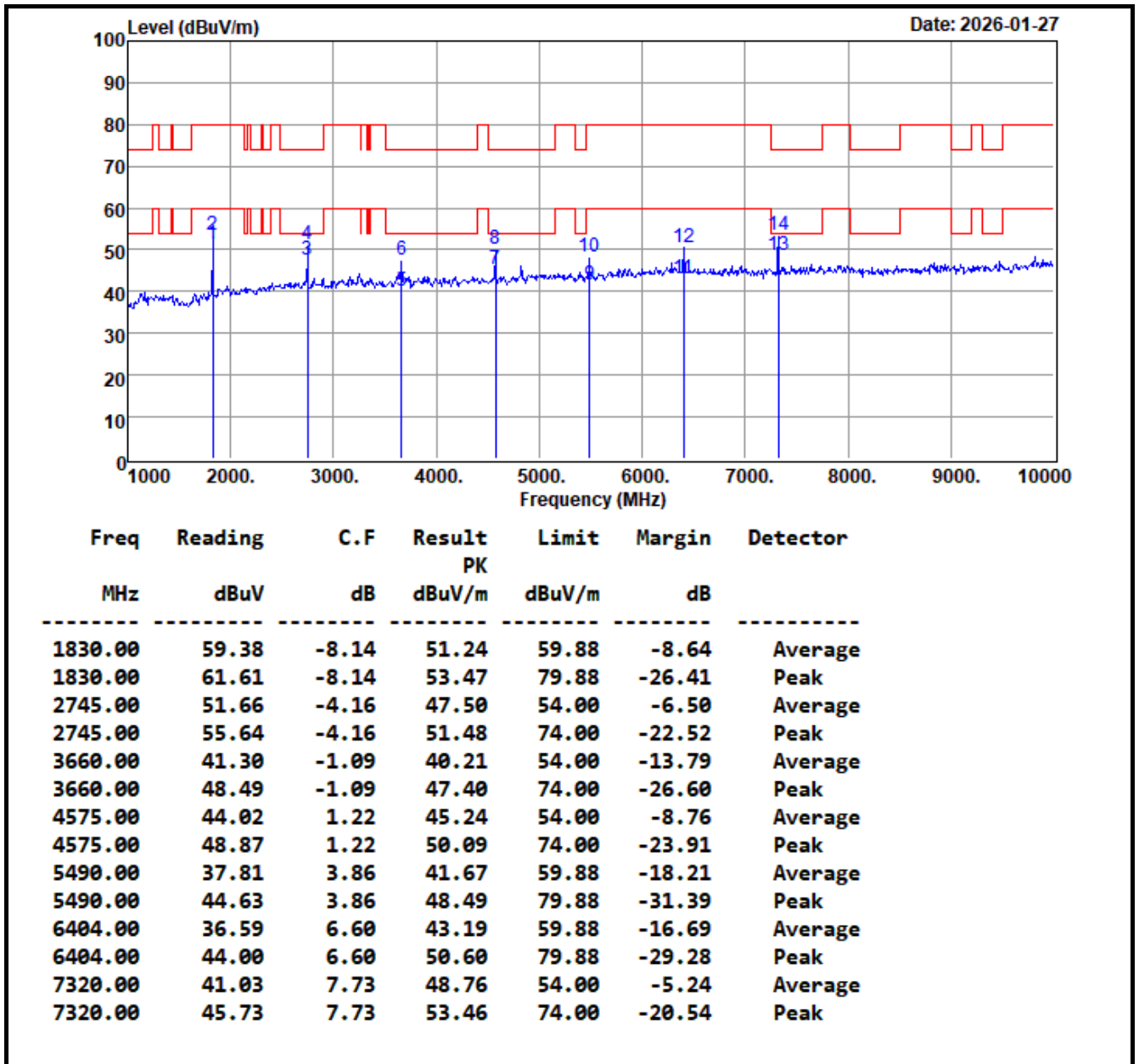


REMARK:

- 1.AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High pass-1G Filter Insertion Loss.
- 2.Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz.
- 3.Average level=Peak level + Duty factor
- 4.The result basic equation calculation is as follow:
C.F = AF + Cable – Preamp + Filter, Result = Reading + C.F, Margin = Result-Limit
- 5.The other emission levels were 10dB below the limit
- 6.The test limit distance is 3m limit.
- 7.In addition to the Restricted bands, other limit values are reduced by 20dB from the main frequency intensity.

Product Name	Wireless Smoke and CO Detector	Test Date	2026/01/27
Model	FD52-HW	Test By	Ted Huang
Test Mode	TX	TEMP& Humidity	23.4℃, 54%

Vertical



REMARK:

- 1.AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High pass-1G Filter Insertion Loss.
- 2.Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz.
- 3.Average level=Peak level + Duty factor
- 4.The result basic equation calculation is as follow:
C.F = AF + Cable – Preamp + Filter, Result = Reading + C.F, Margin = Result-Limit
- 5.The other emission levels were 10dB below the limit
- 6.The test limit distance is 3m limit.
- 7.In addition to the Restricted bands, other limit values are reduced by 20dB from the main frequency intensity.

=== END of Report ===