

FCC - TEST REPORT

Report Number : **68.950.25.0019.01** Date of Issue: **2025-03-14**

Model : **PWF10**

Product Type : **Pet Water Fountain**

Applicant : **Petcube, Inc.**

Address : **251 Little Falls Drive, Wilmington, Delaware 19808, United States**

Manufacturer : **Petcube, Inc.**

Address : **251 Little Falls Drive, Wilmington, Delaware 19808, United States**

Factory : **Shanghai Le Chong Information Technology Co., Ltd**

Address : **3rd Floor, Building 1, No. 400 Fangchun Road, Pudong New Area, Shanghai, China**

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : **26**

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation chapter A-3.4.



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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
Shenzhen City, 518052,
P. R. China

Telephone: +86 755 8828 6998

Fax: +86 755 8828 5299

FCC Registration No.: 514049

FCC Designation Number: CN5009

Test site2:

Company name: Ke Mei Ou Lab Co., Ltd.
2013-2016, 20th Floor, Business Center, No 3027, Shen Nan Road, Fu
Tian, Shen Zhen, Guang Dong, P. R. China Postcode: 518033

Telephone: +86 755 83642690

Fax: +86 755 83297077

FCC Registration No.: 344480

FCC Designation Number: CN1532

3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product: Pet Water Fountain

Model no.: PWF10

Brand Name: Petcube

FCC ID: 2AK4CPWF10

Power Supply: 5VDC, 2A or by 1 or 2 pcs 2600mAh 3.7V rechargeable Li-ion battery

RF Transmission Frequency: 10500MHz - 10550MHz

Modulation: FMCW

Antenna Type: Microstrip planar antenna

Antenna Gain: 3.35 dBi

Description of the EUT: NIL

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2023 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C					
Test Condition	Pages	Test Site	Test Result		
			Pass	Fail	N/A
15.207 Conducted emission AC power port	9	Site 1	☒	☐	☐
§15.205(a), §15.209(a), §15.245(a), §15.245(c) Field strength of emissions and Restricted bands	12	Site 1	☒	☐	☐
§15.245(d) Out of band emissions	20	Site 1,2	☒	☐	☐
FCC §15.215(c) 20dB bandwidth	22	Site 1	☒	☐	☐

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AK4CPWF10, complies with Section 15.207, 15.209, 15.205, 15.245 of the FCC Part 15 Subpart C rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

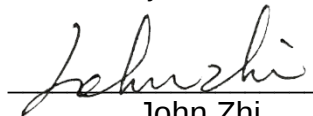
Sample Received Date: Feb 26, 2025

Testing Start Date: Feb 26, 2025

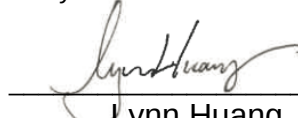
Testing End Date: Mar 10, 2025

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

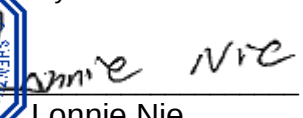

John Zhi
Project Manager

Prepared by:


Lynn Huang
Project Engineer

Tested by:

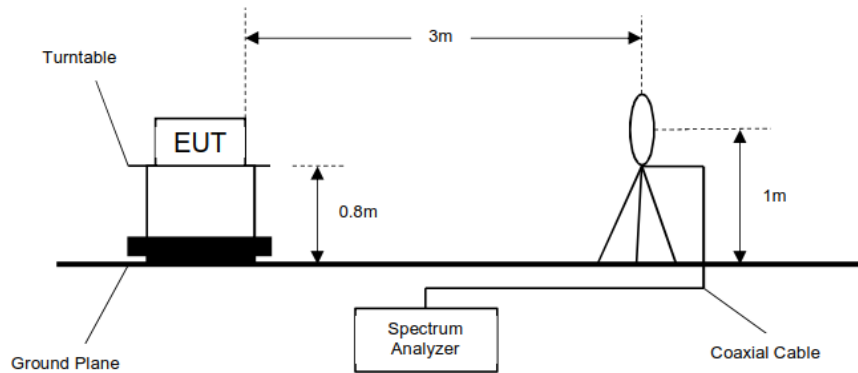



Lonnie Nie
Test Engineer

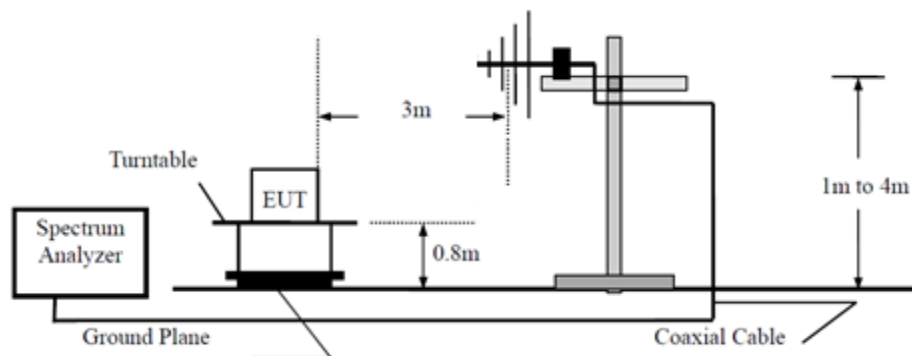
7 Test setups

7.1 Radiated test setups

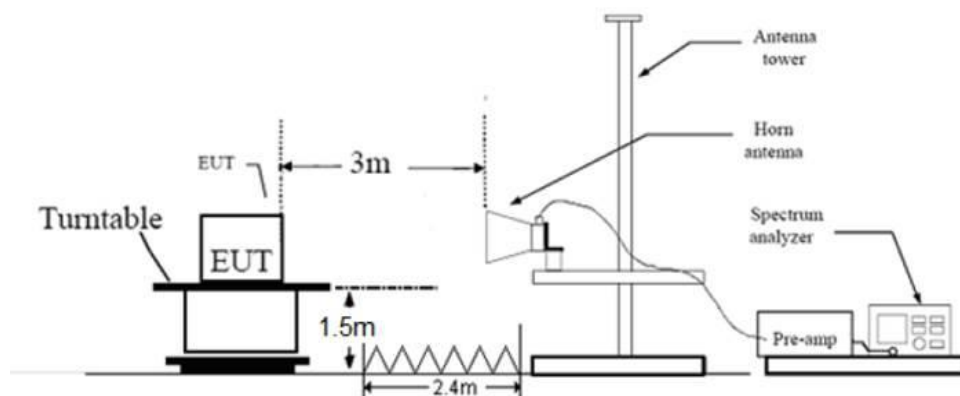
9kHz - 30MHz



Below 1GHz



Above 1GHz



8 Technical Requirement

8.1 Conducted Emissions

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limit

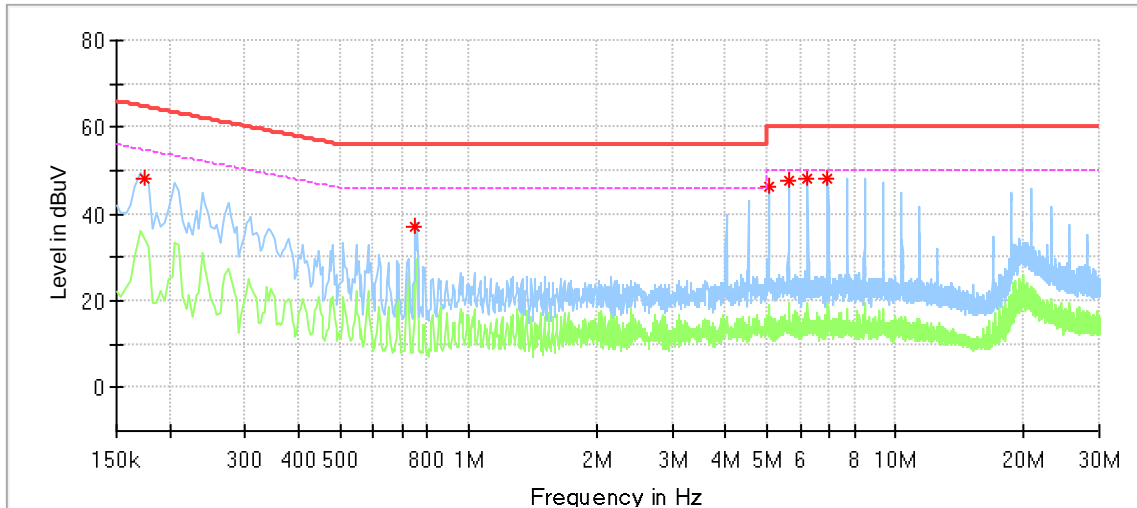
According to §15.207, Conducted Emission limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Conducted Emission

Product Type : Pet Water Fountain
 M/N : PWF10
 Operating Condition : Transmit mode
 Test Specification : Line
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.174000	48.06	---	64.77	16.70	L1	9.67
0.750000	36.89	---	56.00	19.11	L1	9.68
5.042000	46.33	---	60.00	13.67	L1	9.81
5.622000	47.91	---	60.00	12.09	L1	9.83
6.238000	48.08	---	60.00	11.92	L1	9.85
6.950000	48.33	---	60.00	11.67	L1	9.87

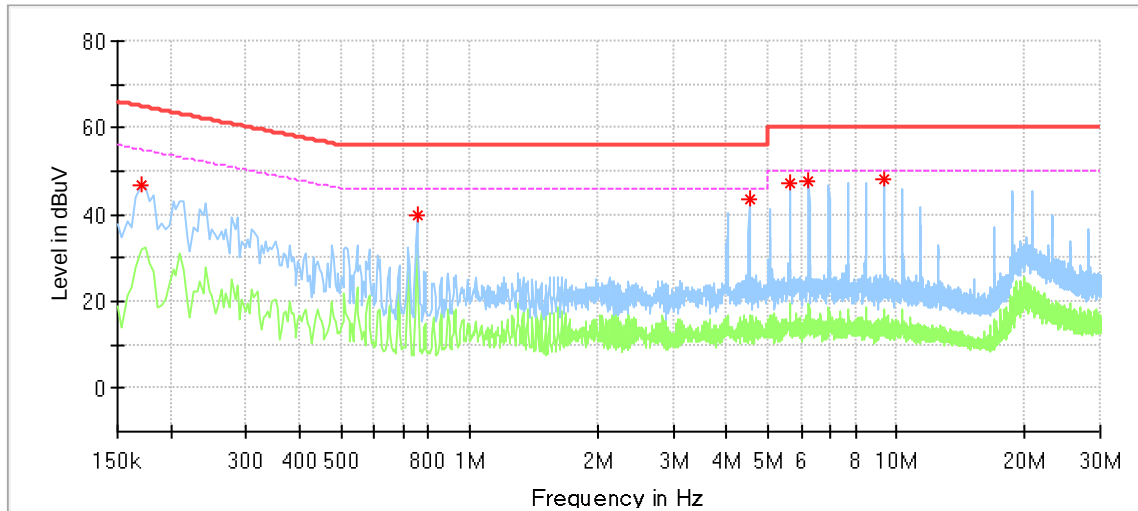
Remark:

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Product Type : Pet Water Fountain
 M/N : PWF10
 Operating Condition : Transmit mode
 Test Specification : Neutral
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170000	46.89	---	64.96	18.07	N	9.67
0.754000	40.01	---	56.00	15.99	N	9.67
4.522000	43.47	---	56.00	12.53	N	9.77
5.622000	47.41	---	60.00	12.59	N	9.81
6.238000	47.85	---	60.00	12.15	N	9.83
9.358000	48.23	---	60.00	11.77	N	9.90

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

8.2 Field strength of emissions and Restricted bands

Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured ,RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-1992 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.
The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{duty cycle}/100\text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limits

According to §15.245 (b), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency(MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902–928	500	1.6
2435–2465	500	1.6
5785–5815	500	1.6
10500-10550	2500	25.0
24075-24175	2500	25,0

According to §15.245 (b2), Field strength limits are specified at a distance of 3 meters.

According to §15.249 (b3), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to §15.205 Unwanted emissions falling into restricted bands in §15.205 (a) Table 3 shall comply with the limits specified in §15.209.

Remark:

- (1) "*" means the emission(s) appear within the restrict bands shall follow the requirement of § 15.205.
- (2) Data of measurement within frequency ranges 9kHz-30MHz is the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.
- (3) Above 1GHz: During the test, 1.5 meters was the worst data

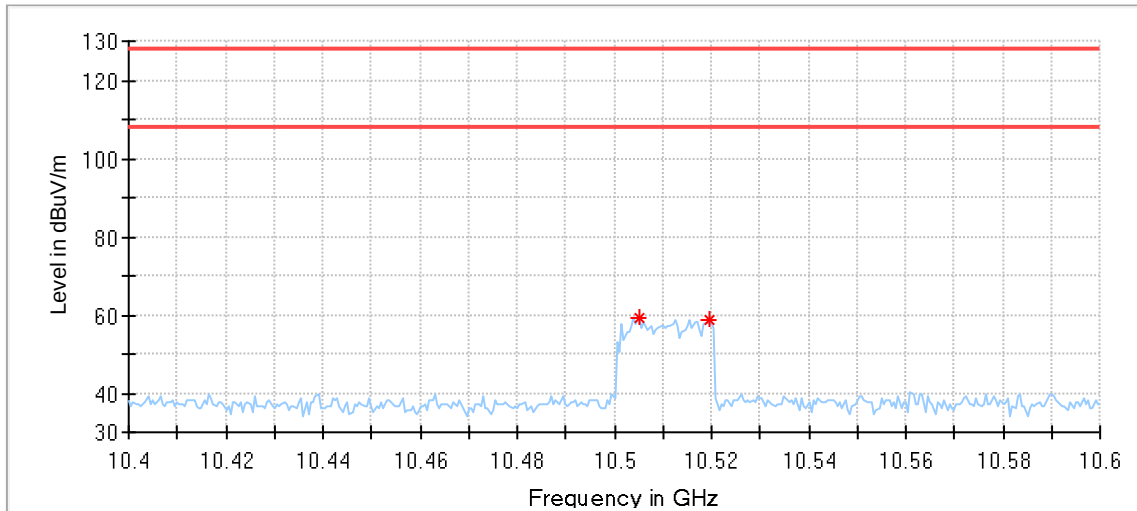
Filed Strength of Fundamental

EUT: Pet Water Fountain

M/N: PWF10

Operating Condition: Tx

Ant. Polarity: Vertical



Critical_Freqs

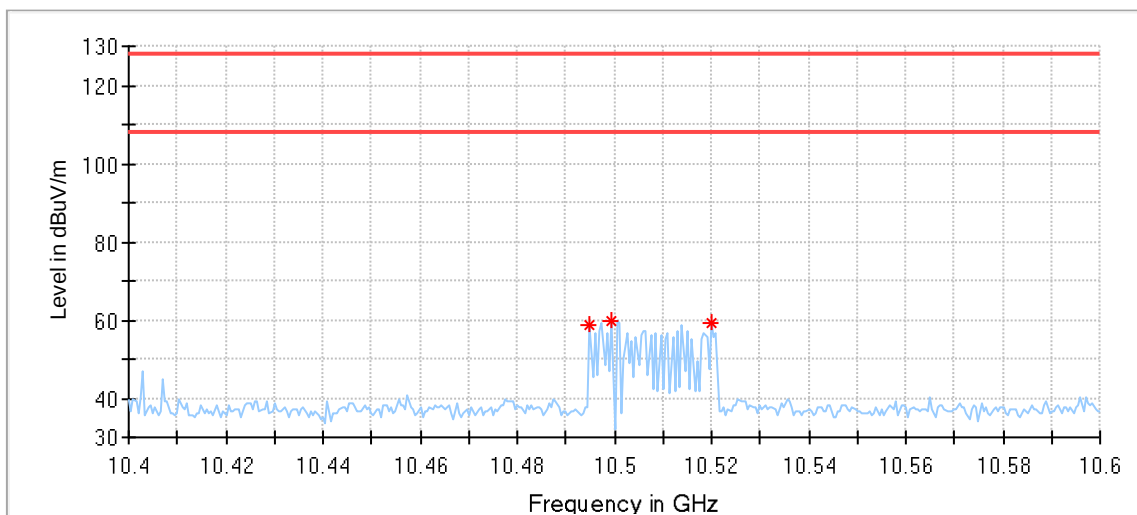
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10505.000000	58.98	128.00	69.02	150.0	H	256.0	13.06
10519.500000	58.87	128.00	69.13	150.0	H	109.0	13.05

EUT: Pet Water Fountain

M/N: PWF10

Operating Condition: Tx

Ant. Polarity: Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10495.000000	58.61	74.00	15.39	150.0	V	181.0	12.95
10499.500000	59.63	74.00	14.37	150.0	V	230.0	12.95
10520.000000	59.28	74.00	14.72	150.0	V	157.0	12.92

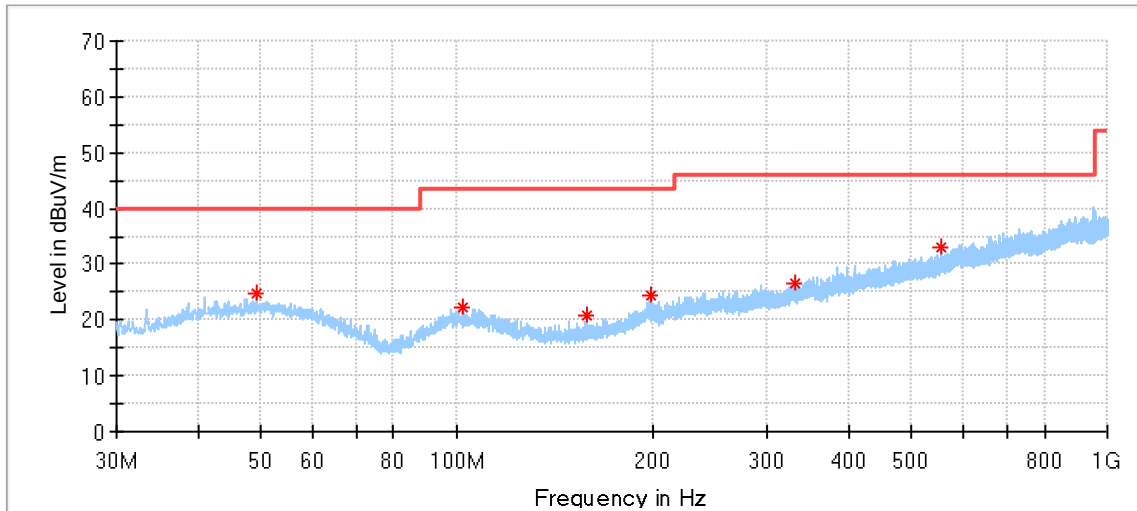
Radiation Spurious Emission

EUT: Pet Water Fountain

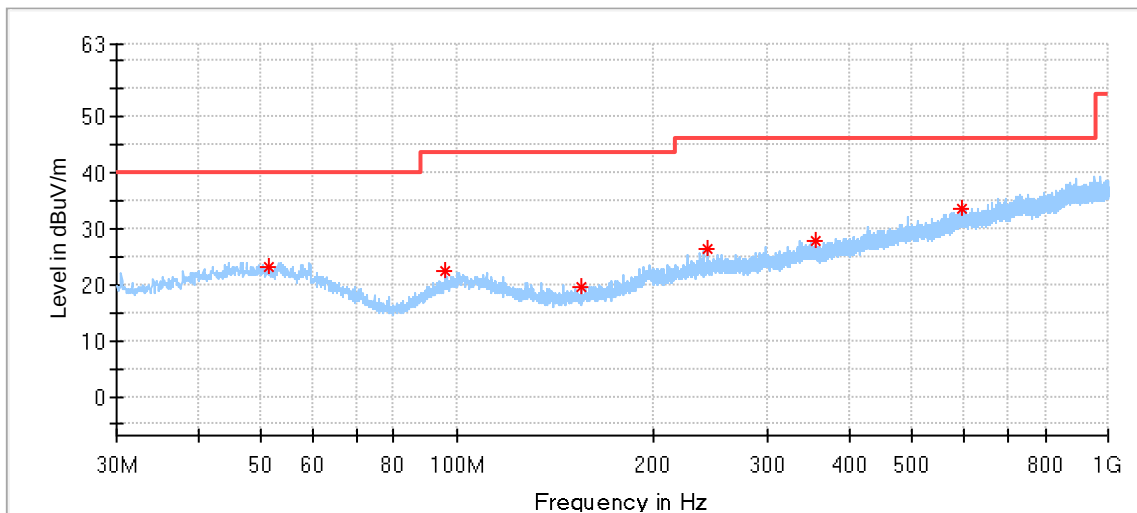
M/N: PWF10

Operating Condition: Tx

Comment: 30-1000MHz



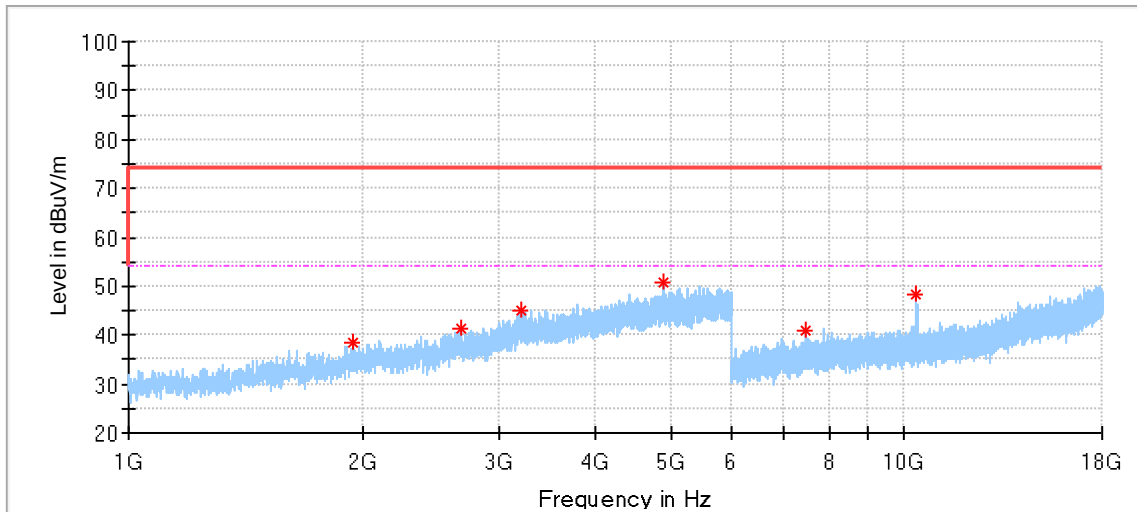
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.346111	24.84	40.00	15.16	200.0	H	227.0	18.24
102.211111	22.28	43.50	21.22	200.0	H	0.0	16.00
158.417222	20.92	43.50	22.58	200.0	H	89.0	13.02
198.402778	24.29	43.50	19.21	200.0	H	208.0	16.13
331.562222	26.71	46.00	19.29	200.0	H	153.0	19.47
556.171111	33.00	46.00	13.00	200.0	H	162.0	23.85



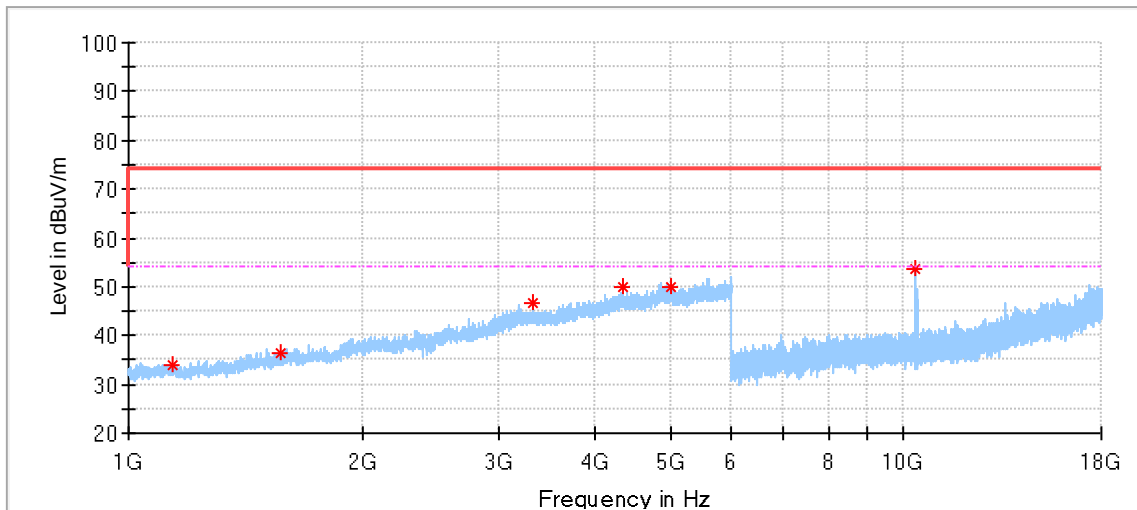
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.393889	23.10	40.00	16.90	100.0	V	192.0	18.11
95.798333	22.55	43.50	20.95	200.0	V	343.0	15.22
154.752778	19.62	43.50	23.88	100.0	V	356.0	12.79
243.184444	26.55	46.00	19.45	200.0	V	186.0	17.30
355.435000	27.98	46.00	18.02	200.0	V	76.0	19.97
596.480000	33.58	46.00	12.42	100.0	V	192.0	24.96

EUT: Pet Water Fountain
Operating Condition: Tx
Comment: 1GHz-18GHz

M/N: PWF10



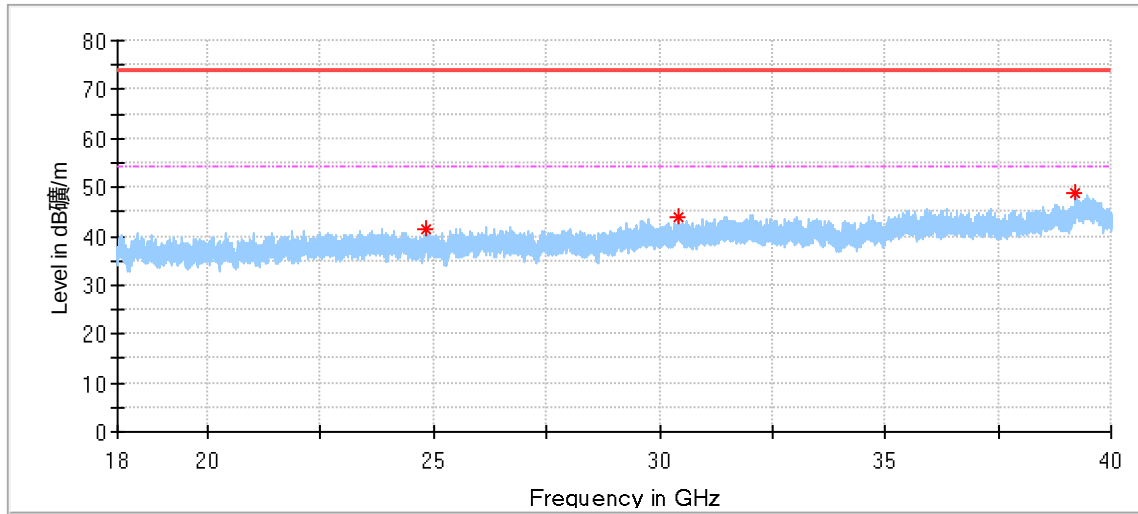
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1952.000000	38.53	74.00	35.47	150.0	H	0.0	-6.35
2687.000000	41.54	74.00	32.46	150.0	H	0.0	-3.58
3211.500000	44.88	74.00	29.12	150.0	H	0.0	0.02
4880.500000	50.79	74.00	23.21	150.0	H	0.0	5.70
7457.000000	40.76	74.00	33.24	150.0	H	42.0	9.69
10511.500000	48.15	74.00	25.85	150.0	H	356.0	13.06



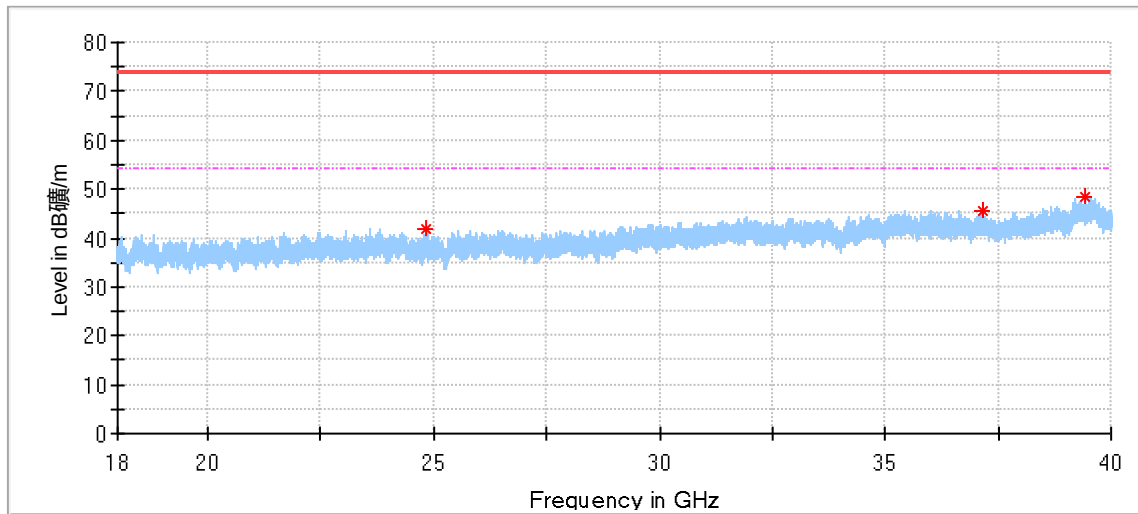
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1140.500000	34.10	74.00	39.90	150.0	V	156.0	-11.92
1567.500000	36.51	74.00	37.49	150.0	V	132.0	-9.19
3328.000000	46.58	74.00	27.42	150.0	V	204.0	0.03
4348.000000	50.09	74.00	23.91	150.0	V	336.0	4.01
5023.500000	49.81	74.00	24.19	150.0	V	312.0	5.67
10515.000000	53.57	74.00	20.43	150.0	V	259.0	13.06

EUT: Pet Water Fountain
Operating Condition: Tx
Comment: 18GHz-40GHz

M/N: PWF10



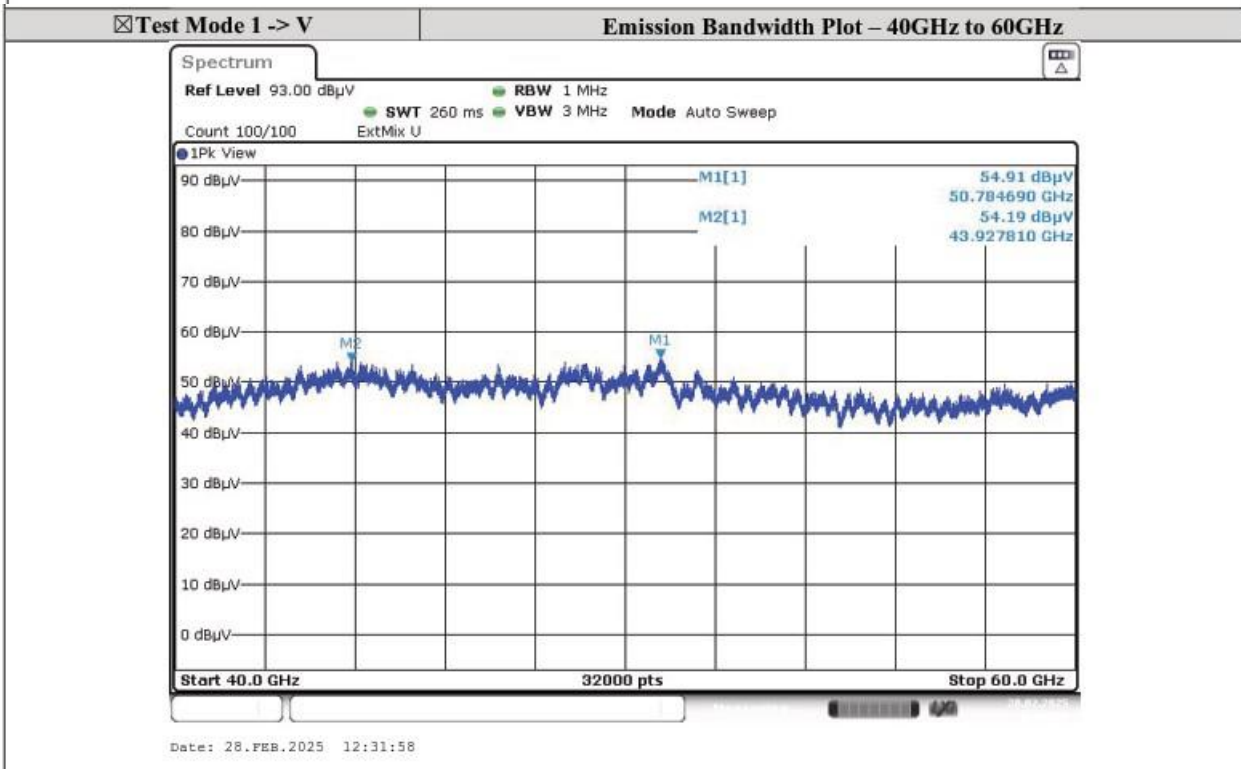
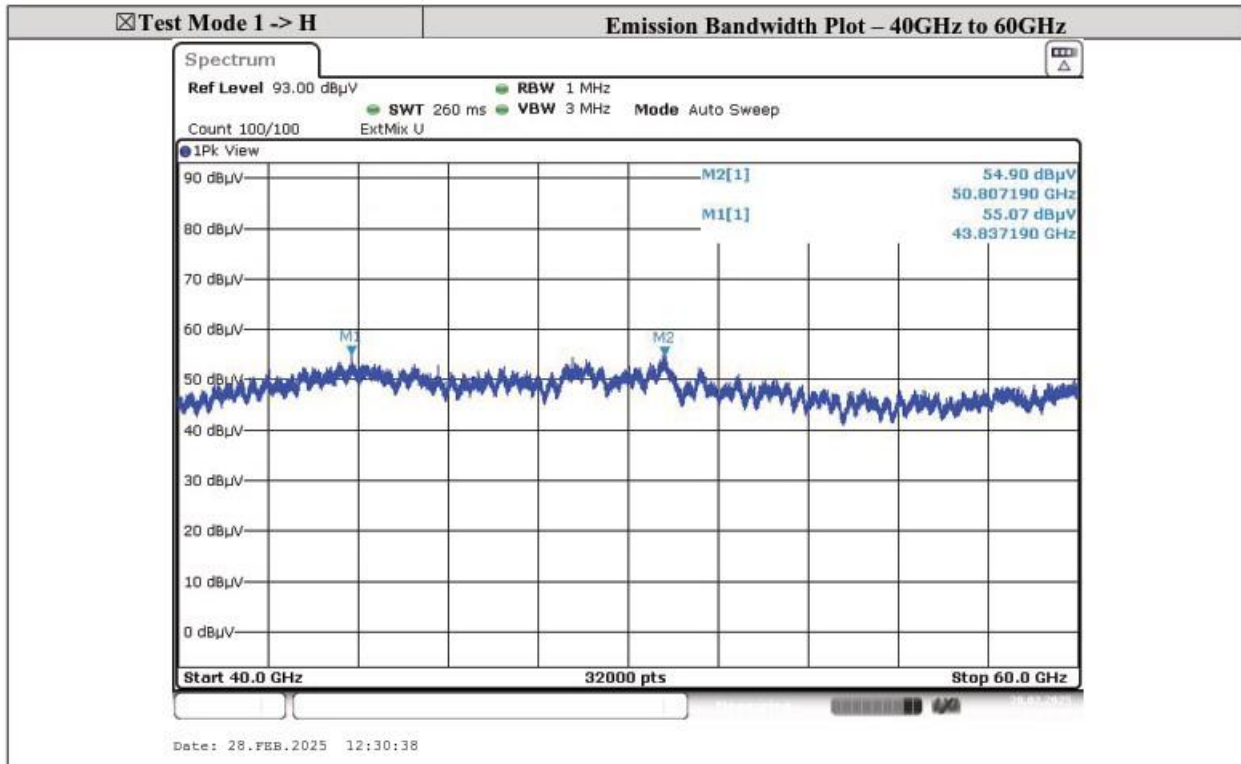
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
24815.875000	41.59	74.00	32.41	150.0	H	315.0	-0.28
30402.500000	43.84	74.00	30.16	150.0	H	341.0	0.95
39203.187500	48.71	74.00	25.29	150.0	H	88.0	4.42

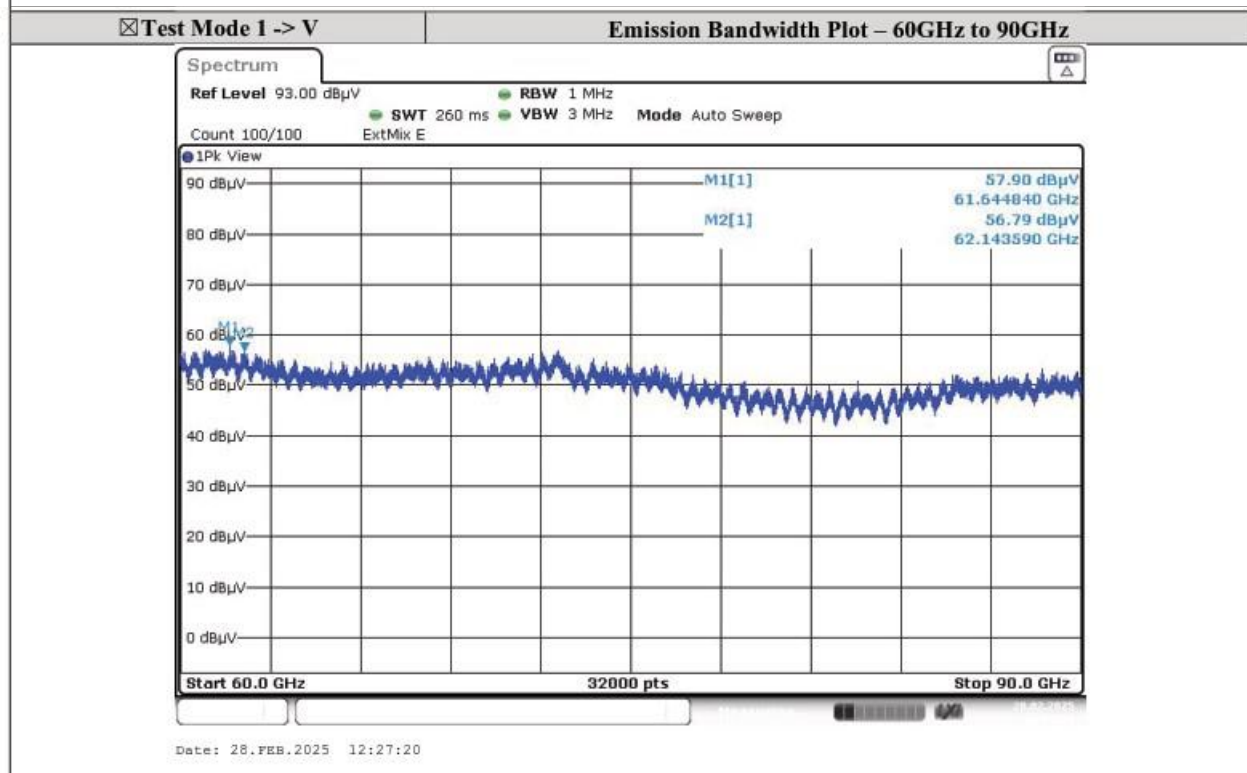
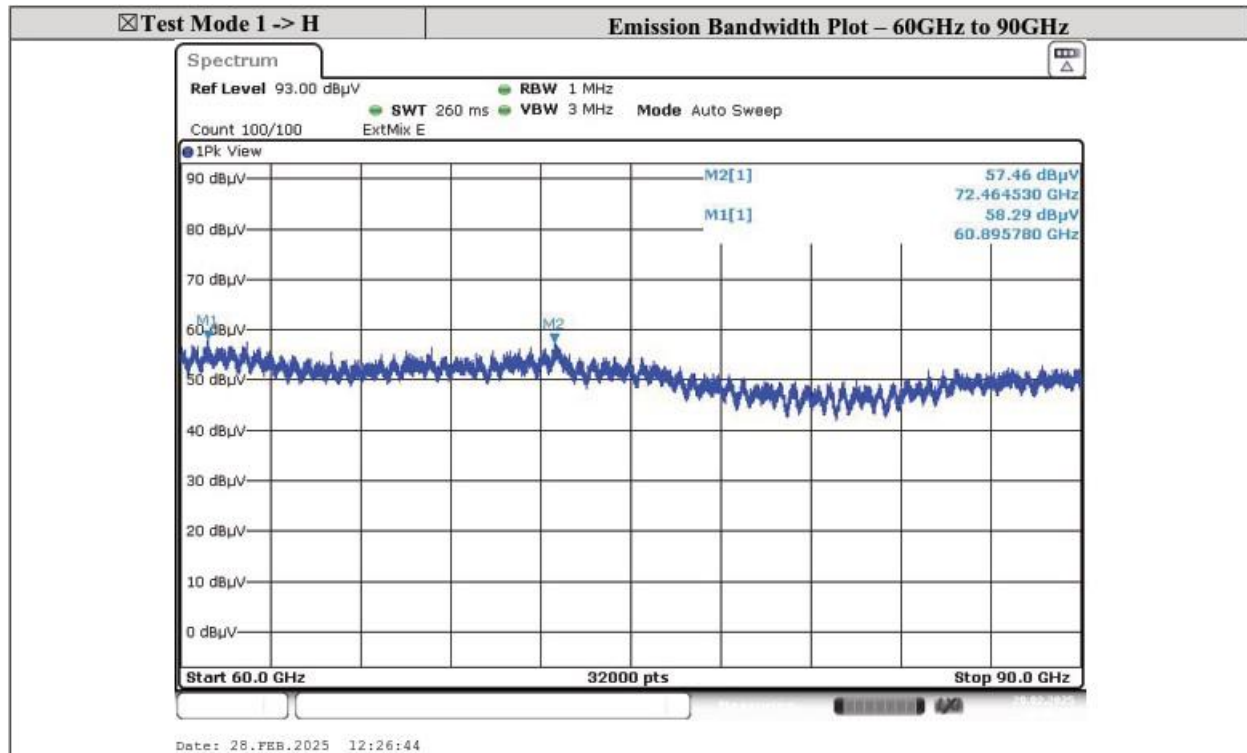


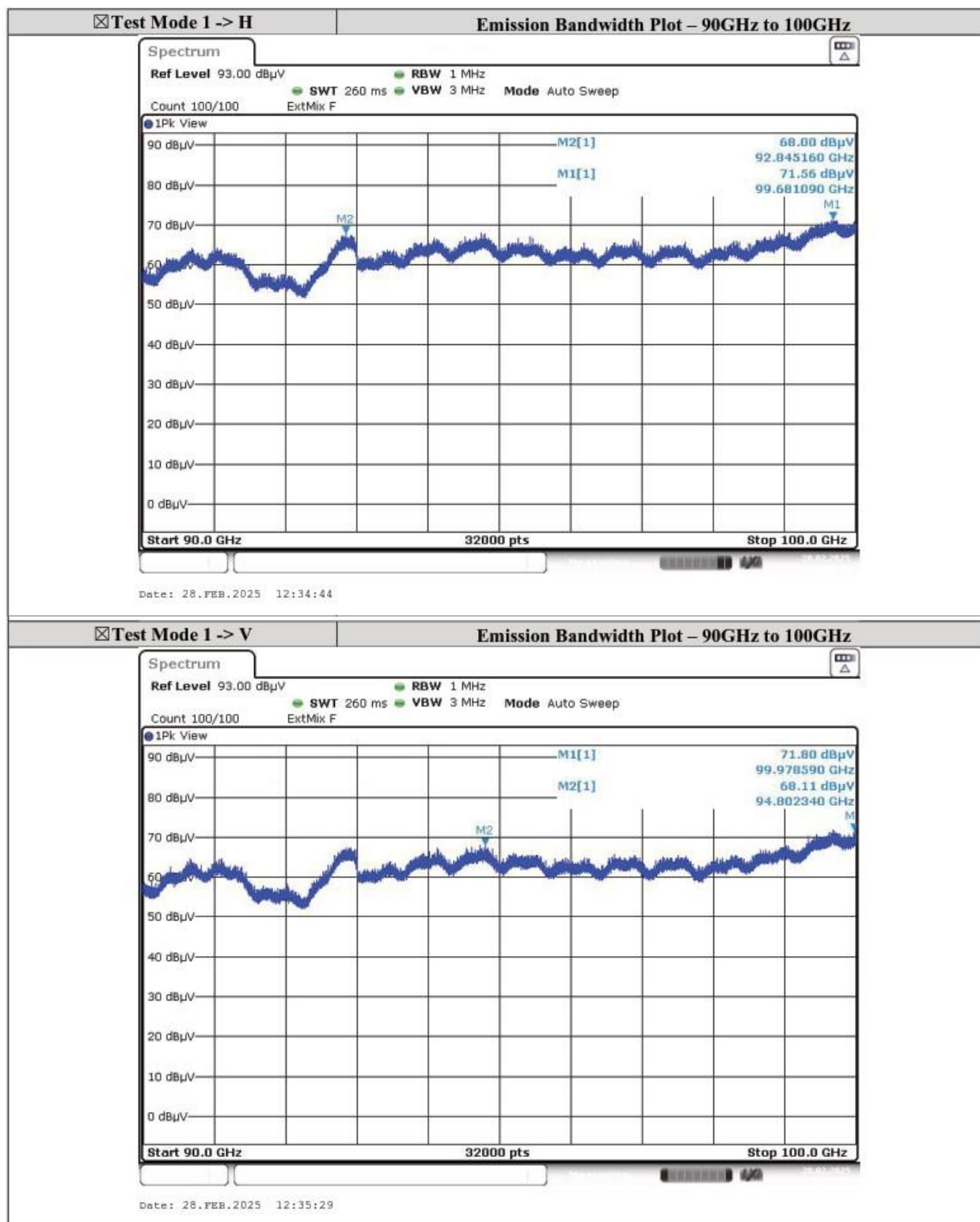
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
24815.187500	41.88	74.00	32.12	150.0	V	196.0	-0.28
37168.187500	45.64	74.00	28.36	150.0	V	303.0	2.39
39439.687500	48.40	74.00	25.60	150.0	V	303.0	5.82

EUT: Pet Water Fountain
Operating Condition: Tx
Comment: 40-100GHz

M/N: PWF10







8.3 Out of Band Emissions

Test Method

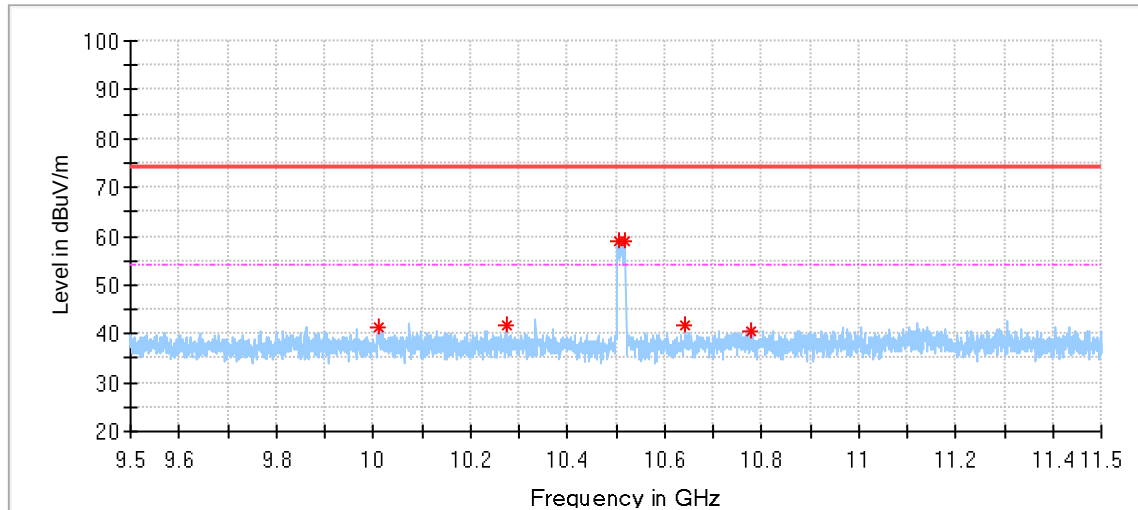
1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. The spectrum analyzer or receiver is set as:
 - (1) Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto
 - (2) Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Limits

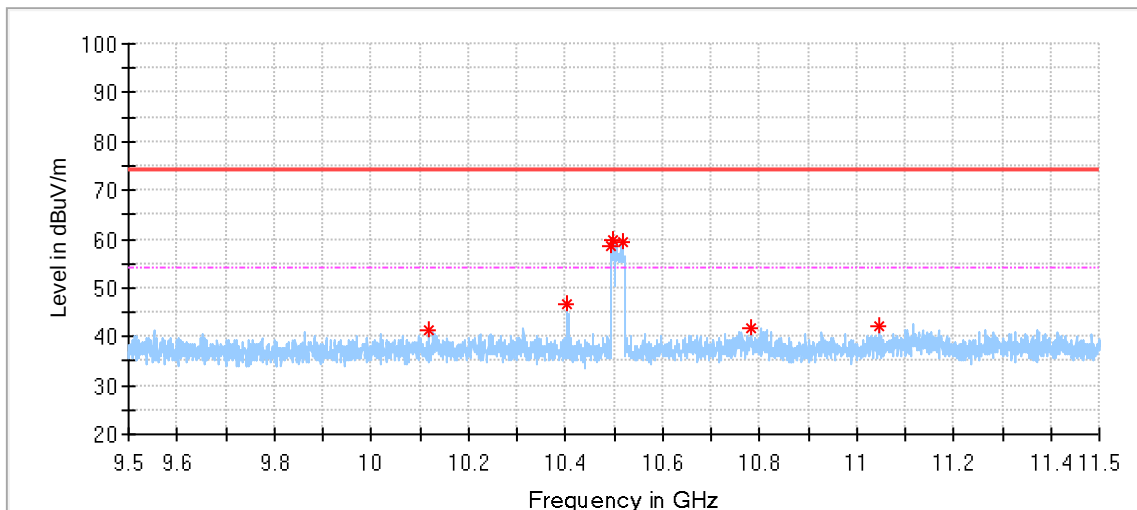
According to §15.245(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

EUT: Pet Water Fountain
Operating Condition: Tx
Ant. Polarity: Horizontal

M/N: PWF10



Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10013.000000	41.33	74.00	32.67	150.0	H	232.0	13.02
10273.500000	41.73	74.00	32.27	150.0	H	305.0	13.15
10505.000000	58.98	74.00	15.02	150.0	H	256.0	13.06
10519.500000	58.87	74.00	15.13	150.0	H	109.0	13.05
10642.000000	41.66	74.00	32.34	150.0	H	109.0	12.95
10779.000000	40.43	74.00	33.57	150.0	H	109.0	13.06



Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10117.000000	41.26	74.00	32.74	150.0	V	56.0	12.72
10403.000000	46.80	74.00	27.20	150.0	V	181.0	13.05
10495.000000	58.61	74.00	15.39	150.0	V	181.0	12.95
10499.500000	59.63	74.00	14.37	150.0	V	230.0	12.95
10520.000000	59.28	74.00	14.72	150.0	V	157.0	12.92
10783.000000	41.62	74.00	32.38	150.0	V	108.0	13.07
11047.500000	42.24	74.00	31.76	150.0	V	132.0	13.82

8.4 20dB Bandwidth

Test Method

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

Limits:

According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

According to RSS-Gen 4.6.1 when an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.

20dB Bandwidth Occupied Bandwidth

Frequency MHz	20dB Bandwidth MHz	Limit kHz	Result
10504	22.00	--	Pass



Date: 17.MAR.2025 14:01:56

9 Test equipment list

List of Test Instruments

For Site 1

Radiated Spurious Emission Test(9kHz-30MHz)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2025-5-13
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2025-7-24
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-14-002-A10	Version 9.15.00	N/A	N/A

Radiated Spurious Emission Test (30MHz-1GHz) (SAC-3 #1)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2025-5-13
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	1	2025-7-2
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-001	15542	1	2025-5-11
Cable	HUBER-SUHNER	RG214	68-4-90-14-001-A20	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.02	N/A	N/A

Radiated Spurious Emission Test (1GHz-18GHz) (SAC-3 #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2025-4-10
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2025-5-11
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2025-5-11
Cable	OUQIAO	18DLB5-NMNM-7000	68-4-90-19-006-A22	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Radiated Spurious Emission Test (18GHz-40GHz) (SAC-3 #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2025-5-13
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2025-7-2
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2025-7-17
Cable	JUNFLON	MWX241	68-4-90-19-006-A21	----	----	----
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	3	2026-10-25
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

Conducted Emission Test (AMN)(CSR #2)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2025-5-13
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2025-5-12
LISN	Rohde & Schwarz	ENV4200	68-4-87-14-001	100249	1	2025-5-13
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2025-5-11
Cable	OUQIAO	RG142	68-4-90-19-005-A20	----	----	----
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35.02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2025-10-15

RF Test System (FCC Part15 C)

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2025-5-11
RF Meas. and Switch Matrix Unit	TST PASS	TSCB3023R2	68-4-93-23-001	2811685c	1	2025-5-11
Cable	JUNFLON	J12J103539	68-4-90-19-003-A20	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A21	----	----	----
Cable	JUNFLON	J12J103539	68-4-90-19-003-A22	----	----	----
Test software	TST PASS	TST PASS	68-4-93-23-001-A03	Version 2.0	N/A	N/A
Test software	Tonscend	JS1120-3	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2025-10-15

For Site 2

Equipment/ Facilities	Manufacturer	Model #	Serial No.	Cal/Char Date	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	KMO-SZ025M	2024/12/30	2027/12/30
Mixer	OML INC.	M19HWD	KMO-SZ360	NCR ^{Note}	NCR ^{Note}
Antenna, Horn	OML INC.	M19RH WR-19	KMO-SZ361	NCR ^{Note}	NCR ^{Note}
Mixer	OML INC.	M12HWD	KMO-SZ362	NCR ^{Note}	NCR ^{Note}
Antenna, Horn	OML INC.	M12RH WR-12	KMO-SZ363	NCR ^{Note}	NCR ^{Note}
Mixer	OML INC.	M08HWD	KMO-SZ364	NCR ^{Note}	NCR ^{Note}
Antenna, Horn	OML INC.	M08RH WR-08	KMO-SZ365	NCR ^{Note}	NCR ^{Note}

Note: Calibrated by the manufacturer for daily use and testing is performed within calibration interval of mm-wave antenna.

10 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission in new shielding room (68-4-90-19-005) 150kHz-30MHz (for test using AMN ENV216)	3.15dB
Uncertainty for Radiated Emission in 3m chamber (68-4-90-14-001) 9kHz-30MHz	4.70dB
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.63dB; Vertical: 4.78dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 5.38dB; Vertical: 5.38dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 18GHz-40GHz	Horizontal: 5.29dB; Vertical: 5.29dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10 ⁻⁸ or 1%

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.

---THE END OF REPORT---