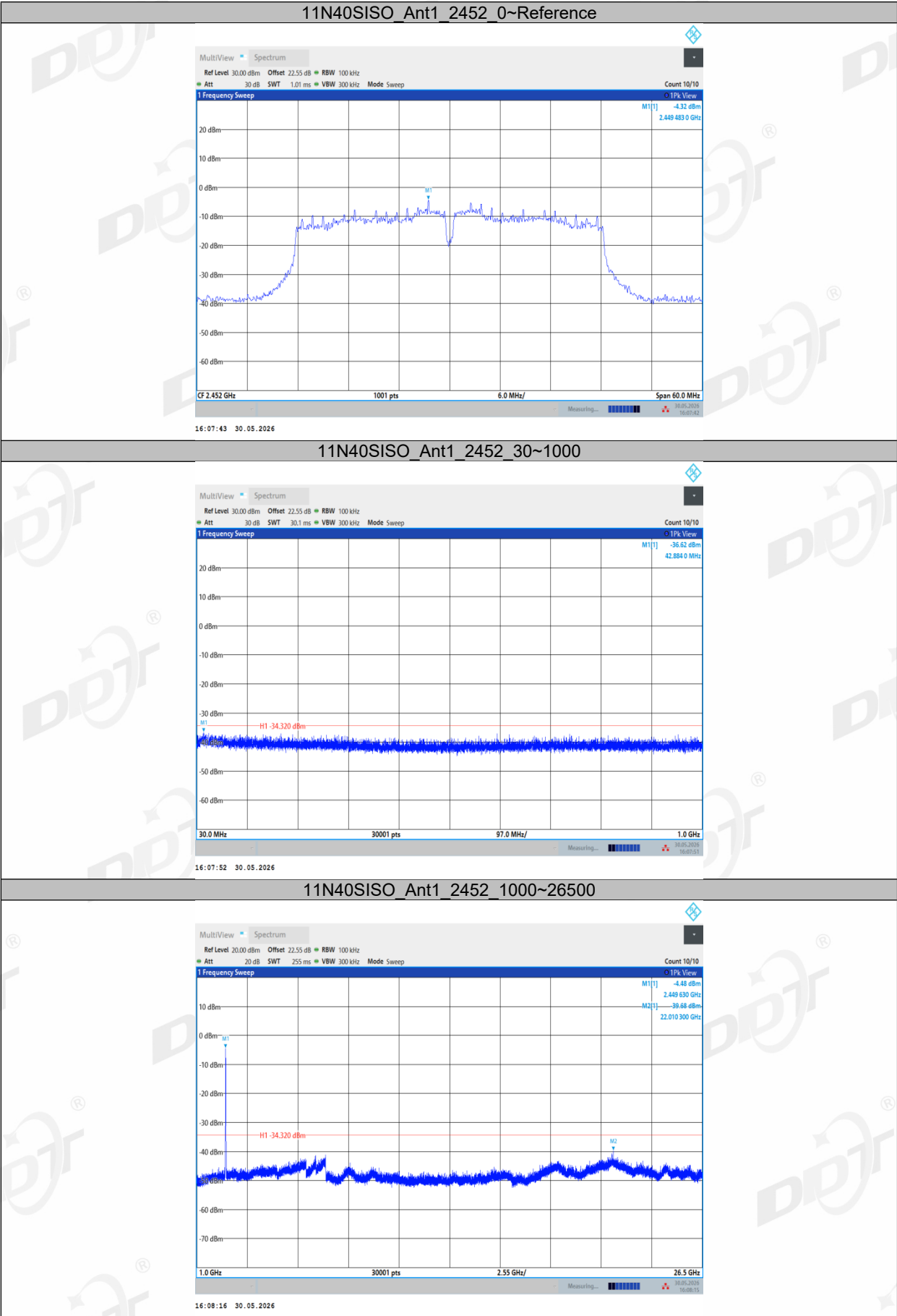
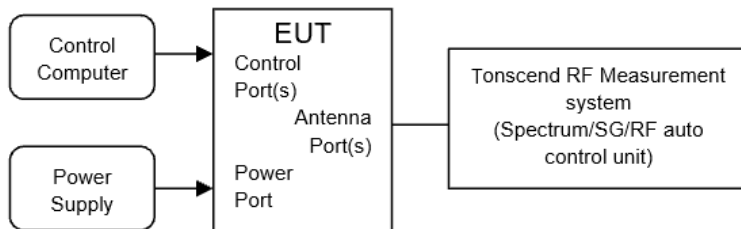




10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. Test procedure

- (1) 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: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

Sweep: Video Trigger

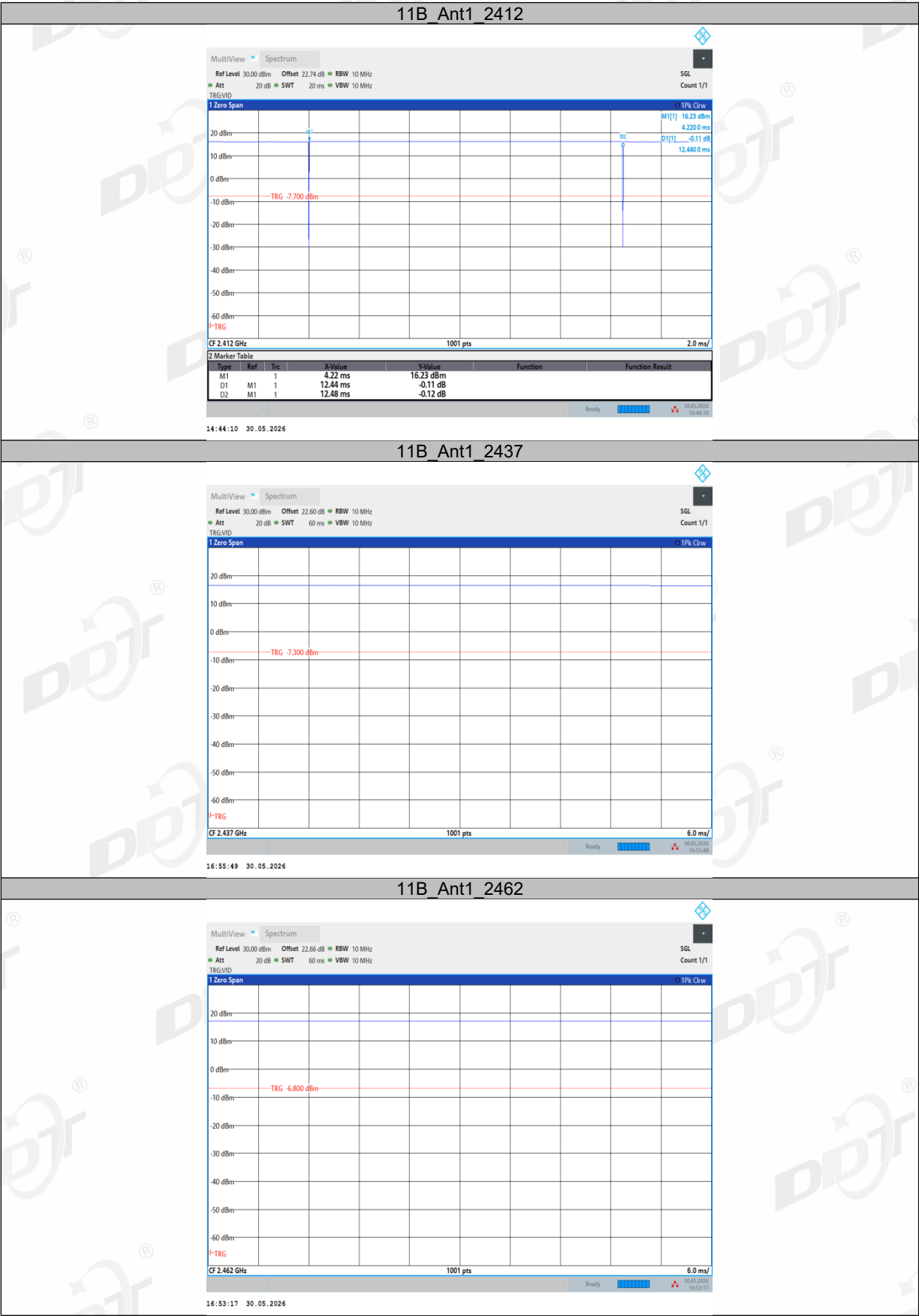
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

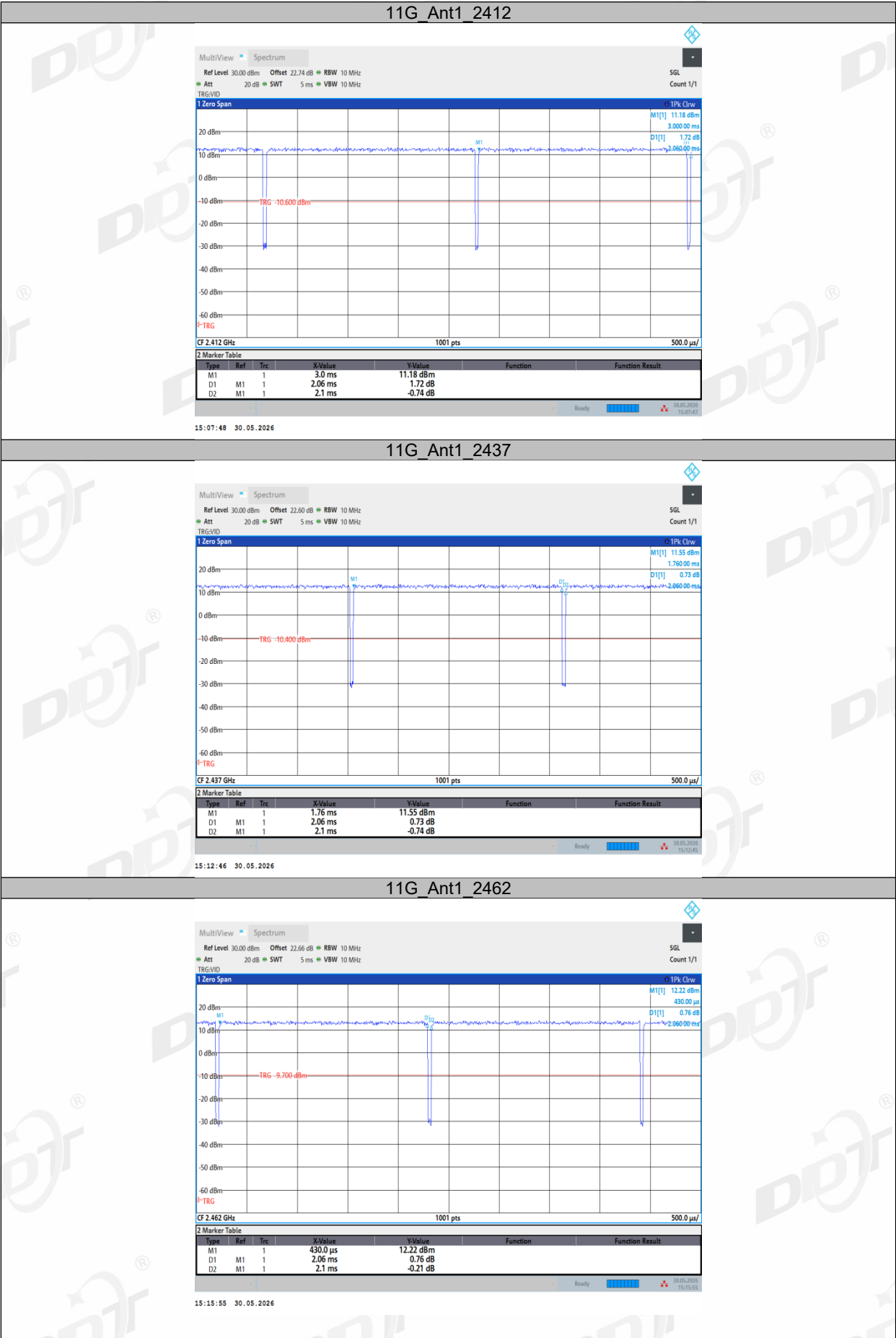
10.4. Test result

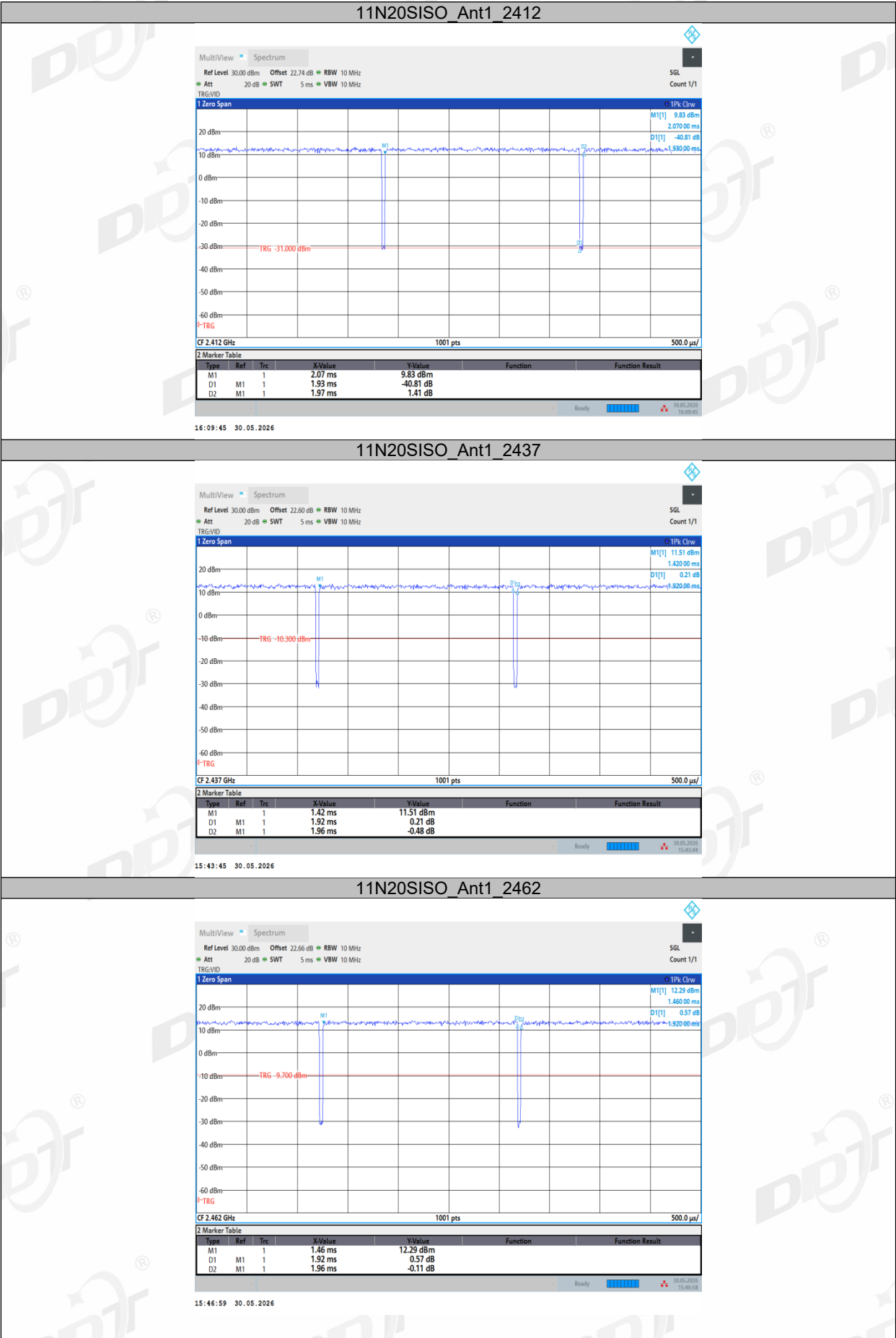
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	28.2℃,39.6%RH	Test Date:	2026.05.30-2026.05.30
Test Power Supply:	DC 12V	Sample Number:	S26042731-006

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	12.44	12.48	99.68
		2437	60.00	60.00	100.00
		2462	60.00	60.00	100.00
11G	Ant1	2412	2.06	2.10	98.10
		2437	2.06	2.10	98.10
		2462	2.06	2.10	98.10
11N20SISO	Ant1	2412	1.93	1.97	97.97
		2437	1.92	1.96	97.96
		2462	1.92	1.96	97.96
11N40SISO	Ant1	2422	0.95	1.00	95.00
		2437	0.95	1.00	95.00
		2452	0.95	1.00	95.00

10.5. Test graphs









11N40SISO_Ant1_2437

MultiView Spectrum

Ref Level 30.00 dBm Offset 22.60 dB RBW 10 MHz

Att 20 dB SWT 5 ms VBW 10 MHz

TRGVWD

SGL Count 1/1

1 Zero Span

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-TRG

TRG -13.700 dBm

CF 2.437 GHz

1001 pts

500.0 μ s

M1[1] 5.34 dBm
540.00 μ s
D1[1] -36.45 dB
950.00 μ s

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	540.0 μ s	5.34 dBm		
D1	M1	1	950.0 μ s	-36.45 dB		
D2	M1	1	1.0 ms	-0.02 dB		

Ready

16:00:18 30.05.2026

11N40SISO_Ant1_2452

MultiView Spectrum

Ref Level 30.00 dBm Offset 22.55 dB RBW 10 MHz

Att 20 dB SWT 5 ms VBW 10 MHz

TRGVWD

SGL Count 1/1

1 Zero Span

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-TRG

TRG -13.300 dBm

CF 2.452 GHz

1001 pts

500.0 μ s

M1[1] 5.53 dBm
2.900 00 ms
D1[1] -37.68 dB
950.00 μ s

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	2.9 ms	5.53 dBm		
D1	M1	1	950.0 μ s	-37.68 dB		
D2	M1	1	1.0 ms	0.03 dB		

Ready

16:04:26 30.05.2026

11. Antenna Requirements

11.1. 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.

11.2. Result

The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

12. Radiated Emission

12.1. Test equipment

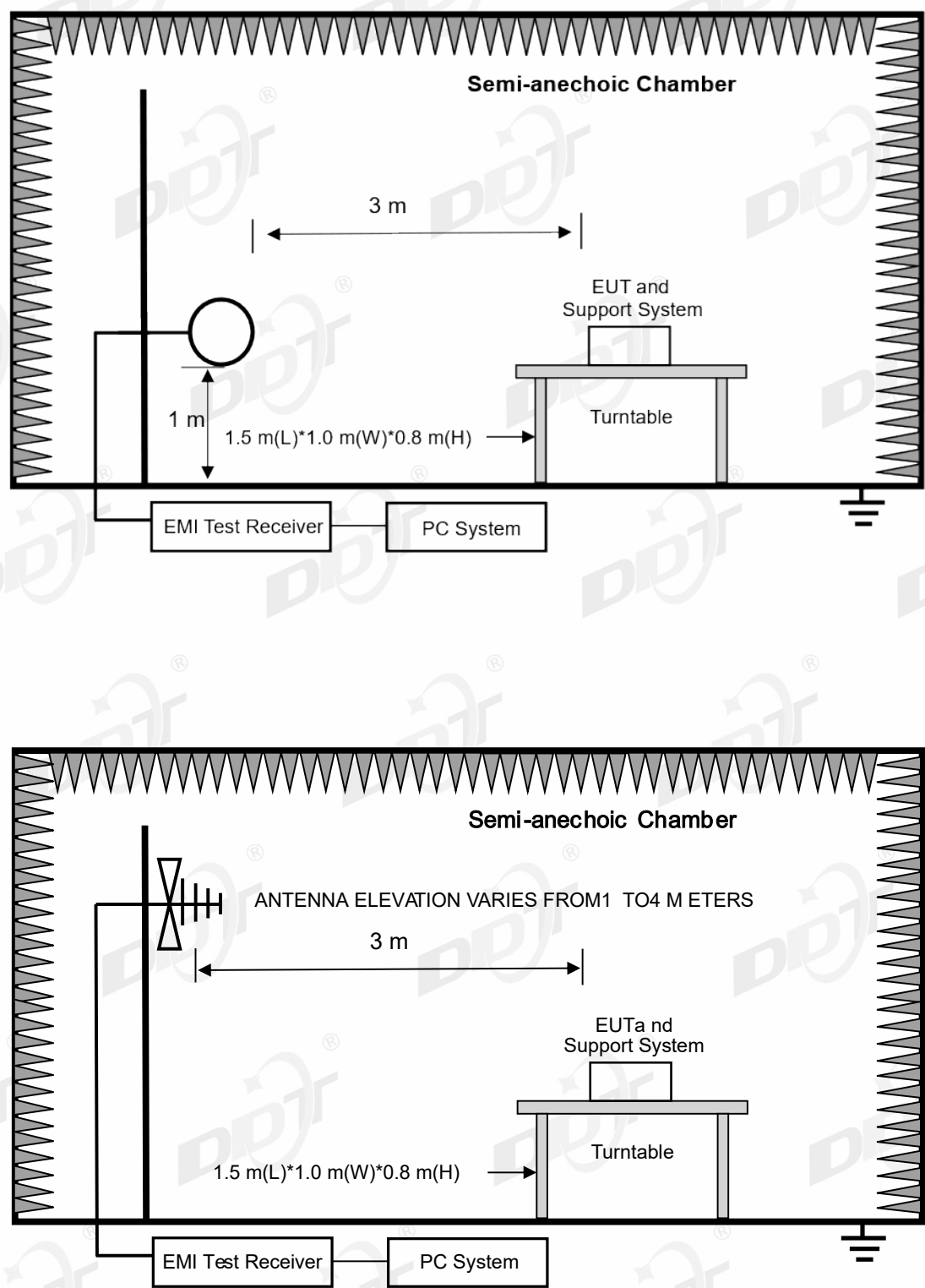
Below 1GHz:

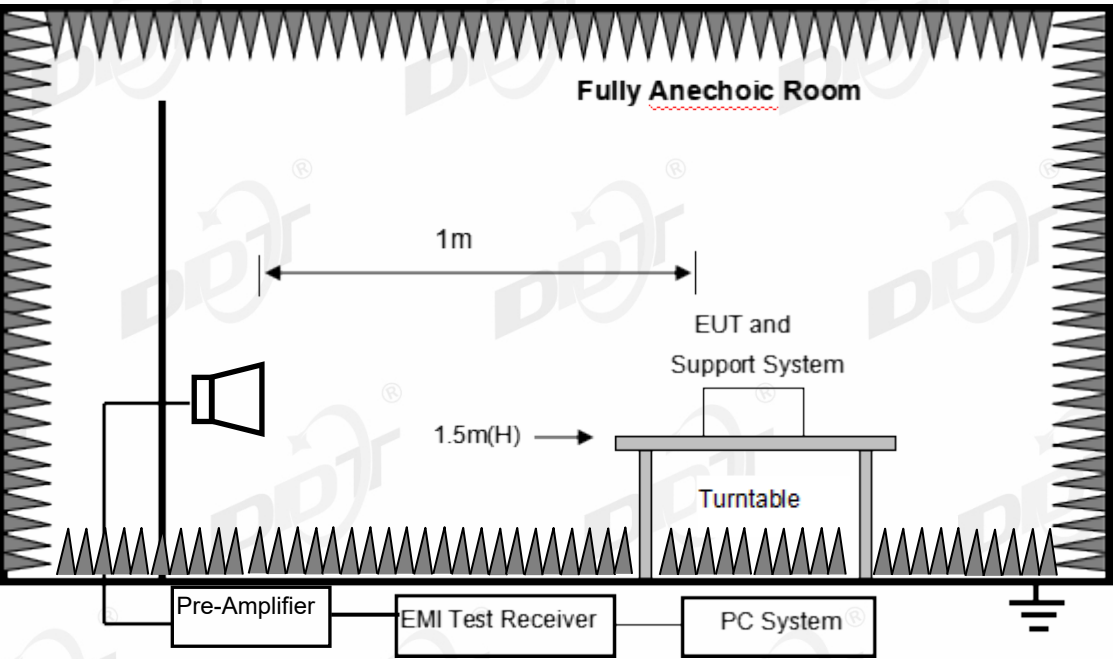
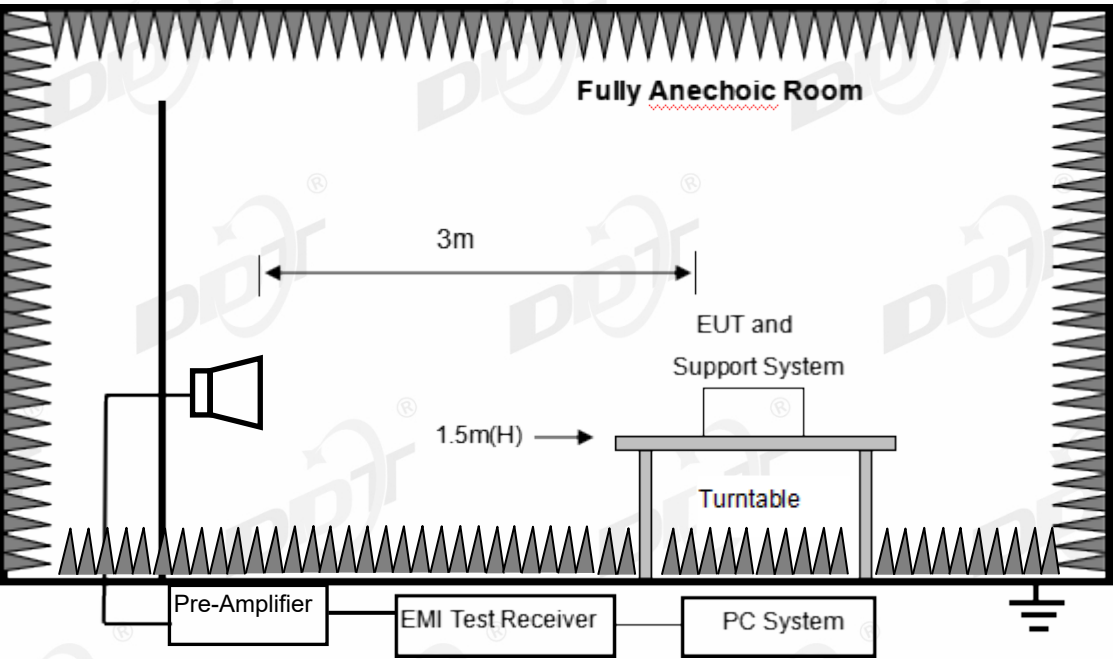
Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
RF cable	Zhongke Junchuang	JCTB510-NJW-NJW-0.6M	DDT-ZC04595	2026/10/10	1 Year
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-3M	DDT-ZC05590	2026/10/10	1 Year
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-10M	DDT-ZC05591	2026/10/10	1 Year
Radiation disturbance fully automated test software	Tonscend	JS32-RE (V5.0.0)	DDT-ZC02739	/	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2027/02/27	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25	1 Year
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18	1 Year

Above 1GHz:

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
Band Reject Filter Group	Tonscend	JS0806-F	DDT-ZC05733	/	/
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC05922	2027/01/06	1 Year
Broadband Preamplifier	HPX	BP-01G-18G	DDT-ZC05923	2027/01/06	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05	1 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04	1 Year
Signal & Spectrum analyzer	R&S	FSV40-N	DDT-ZC04979	2026/07/04	1 Year
SPECTRUM ANALYZER	R&S	FSU26	DDT-ZC00236	2026/07/06	1 Year
RF Cable	Tonscend	7+1+1+0.5+0.5m	DDT-ZC05978	2027/01/29	1 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04	1 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27	1 Year
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10	1 Year
Radiation disturbance fully automated test software	Tonscend	JS-RE&RSE (V5.0.0)	DDT-ZC06466	/	/
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	/

12.2. Block diagram of test setup





12.3. Limits

(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
10.495-0.505	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	DISTANCE	FIELD STRENGTHS LIMIT	
MHz	Meters	uV/m	dBuV/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(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 dBuV/m (Peak) 54.0 dBuV/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:

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

(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.

12.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
HP 66 6 th Gen Core Edition 15.6-inch iaptop	HP	HP ProBook450 G10	Test computer	/
DC Power Source	Varied	RU-150-30050	DC stabilized power supply	/
CAN signal source	Huizhou Foryou General Electronics Co., Ltd.	TR311U-WH	Auxiliary power supply	/

12.5. 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 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 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 clause 4.1.5.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

(9) 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.

(10) 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is record and report)

(11) 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 the worst mode.

(12) The worst simultaneous case and was recorded.

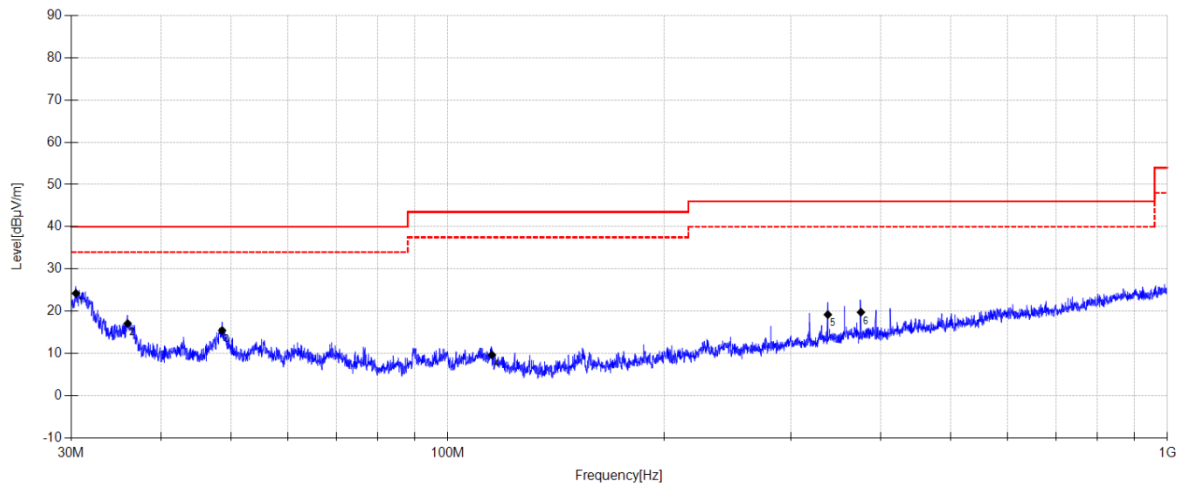
12.6. Test result

PASS. (See below detailed test result)

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-05-25 **Tested By:** Cao Jie
Test Mode: TX 11b 2462MHz Mode **Power Supply:** DC 12V
Condition: Temp:23.6°C;Humi:68.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042731-2E\FCC BELOW 1G\5
Memo: Sample Number : S26042731-007



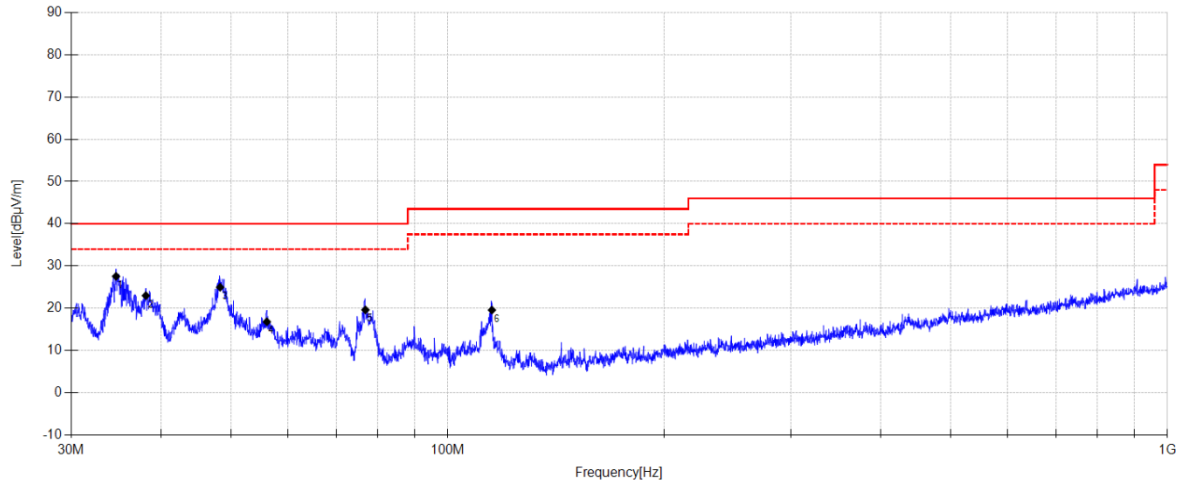
Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.445	42.3	10.41	3.79	24.20	40.00	15.80	QP	Horizontal
2	35.924	33.65	11.85	3.86	17.06	40.00	22.94	QP	Horizontal
3	48.599	30.32	13.44	3.97	15.43	40.00	24.57	QP	Horizontal
4	115.209	26.94	10.64	4.39	9.65	43.50	33.85	QP	Horizontal
5	337.525	31.93	14.25	5.44	19.18	46.00	26.82	QP	Horizontal
6	375.222	31.78	14.84	5.60	19.74	46.00	26.26	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: 2026-05-25 **Tested By:** Cao Jie
Test Mode: TX 11b 2462MHz Mode **Power Supply:** DC 12V
Condition: Temp:23.6°C;Humi:68.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042731-2E\FCC BELOW 1G\6
Memo: Sample Number : S26042731-007

**Final Data List**

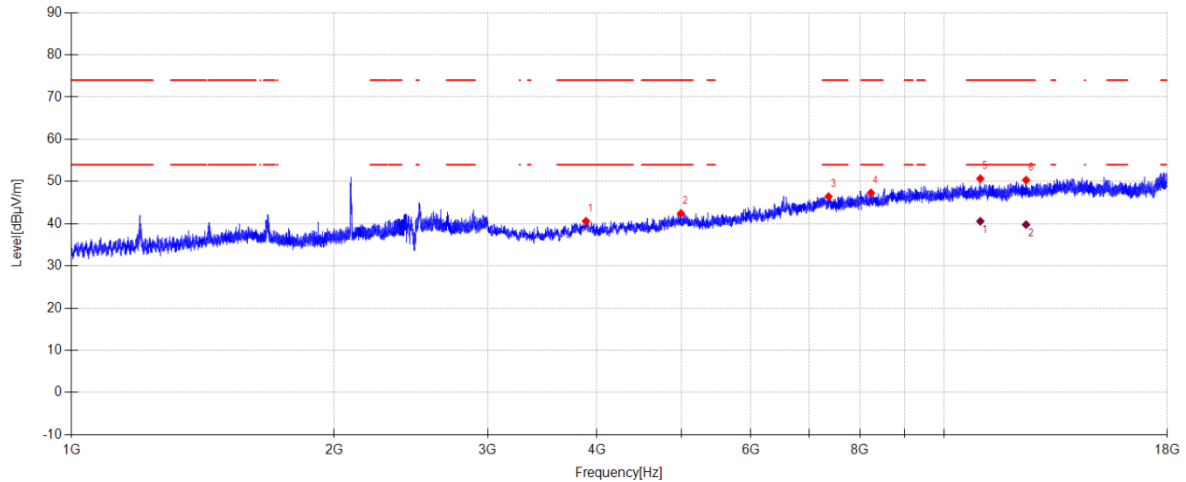
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	34.613	44.69	11.30	3.84	27.53	40.00	12.47	QP	Vertical
2	38.076	39.16	12.21	3.89	22.96	40.00	17.04	QP	Vertical
3	48.293	39.95	13.32	3.97	24.94	40.00	15.06	QP	Vertical
4	56.072	32.07	12.98	4.03	16.78	40.00	23.22	QP	Vertical
5	76.874	39.65	8.05	4.18	19.58	40.00	20.42	QP	Vertical
6	115.209	36.83	10.64	4.39	19.54	43.50	23.96	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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-05-21 **Tested By:** Nan Zhong
Test Mode: TX 11b 2412MHz Mode **Power Supply:** DC 12V
Condition: Temp:23.2°C;Humi:56.5% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\1
Memo: Sample Number:S26042731-007 Power Setting:15

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3885.000	49.10	31.57	-40.07	40.60	74.00	33.40	PK	Horizontal
2	4992.000	49.13	33.87	-40.58	42.42	74.00	31.58	PK	Horizontal
3	7366.500	48.06	37.33	-38.96	46.43	74.00	27.57	PK	Horizontal
4	8236.500	47.59	37.90	-38.20	47.29	74.00	26.71	PK	Horizontal
5	10992.000	46.12	39.72	-35.16	50.68	74.00	23.32	PK	Horizontal
6	12402.000	45.50	39.70	-34.87	50.33	74.00	23.67	PK	Horizontal

Final Data List

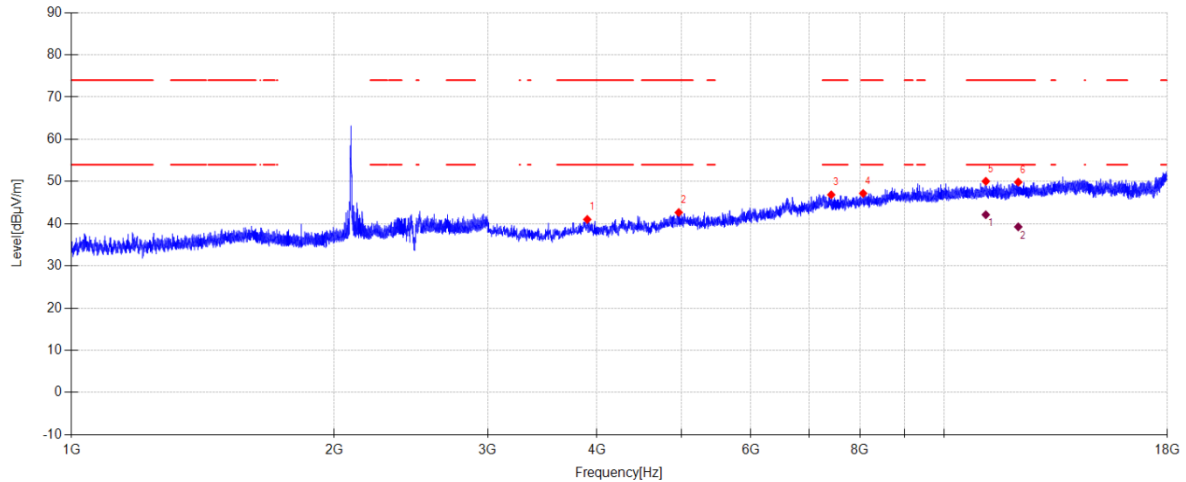
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	10992.000	36.03	39.72	-35.16	40.59	54.00	13.41	AV	Horizontal
2	12402.000	34.96	39.70	-34.87	39.79	54.00	14.21	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-05-21 **Tested By:** Nan Zhong
Test Mode: TX 11b 2412MHz Mode **Power Supply:** DC 12V
Condition: Temp:23.2°C;Humi:56.5% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\2
Memo: Sample Number:S26042731-007 Power Setting:15

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3898.500	49.45	31.60	-40.03	41.02	74.00	32.98	PK	Vertical
2	4962.000	49.43	33.75	-40.52	42.66	74.00	31.34	PK	Vertical
3	7419.000	48.60	37.16	-38.90	46.86	74.00	27.14	PK	Vertical
4	8070.000	47.80	37.90	-38.52	47.18	74.00	26.82	PK	Vertical
5	11152.500	45.62	39.81	-35.37	50.06	74.00	23.94	PK	Vertical
6	12148.500	44.89	39.90	-34.94	49.85	74.00	24.15	PK	Vertical

Final Data List

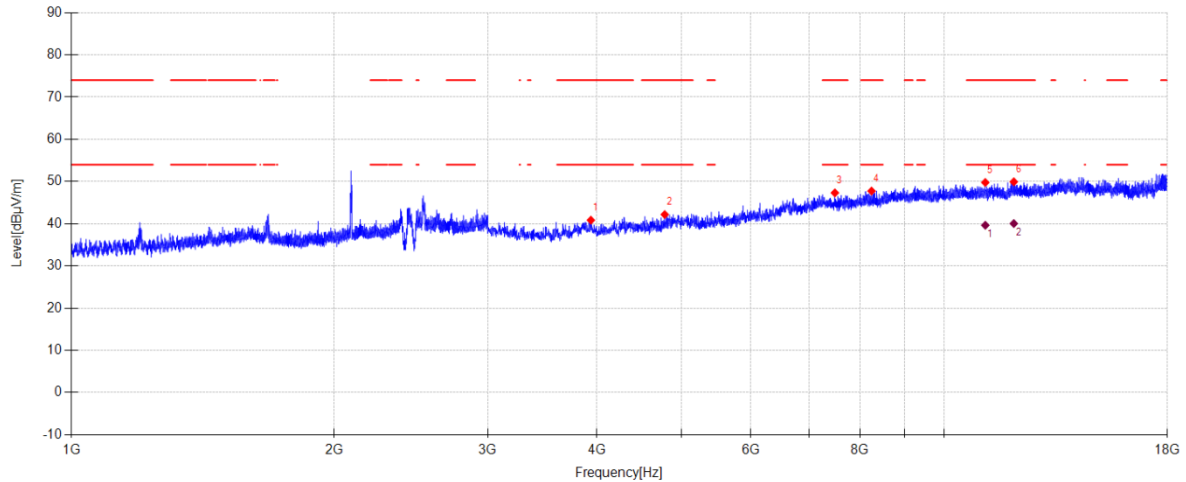
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11152.500	37.69	39.81	-35.37	42.13	54.00	11.87	AV	Vertical
2	12148.500	34.29	39.90	-34.94	39.25	54.00	14.75	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-05-21 **Tested By:** Nan Zhong
Test Mode: TX 11b 2437MHz Mode **Power Supply:** DC 12V
Condition: Temp:23.2°C;Humi:56.5% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\3
Memo: Sample Number:S26042731-007 Power Setting:15

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3936.000	49.40	31.67	-40.23	40.84	74.00	33.16	PK	Horizontal
2	4782.000	49.53	33.13	-40.48	42.18	74.00	31.82	PK	Horizontal
3	7491.000	49.19	37.10	-38.98	47.31	74.00	26.69	PK	Horizontal
4	8250.000	48.03	37.90	-38.19	47.74	74.00	26.26	PK	Horizontal
5	11137.500	45.35	39.78	-35.36	49.77	74.00	24.23	PK	Horizontal
6	12007.500	44.77	39.81	-34.65	49.93	74.00	24.07	PK	Horizontal

Final Data List

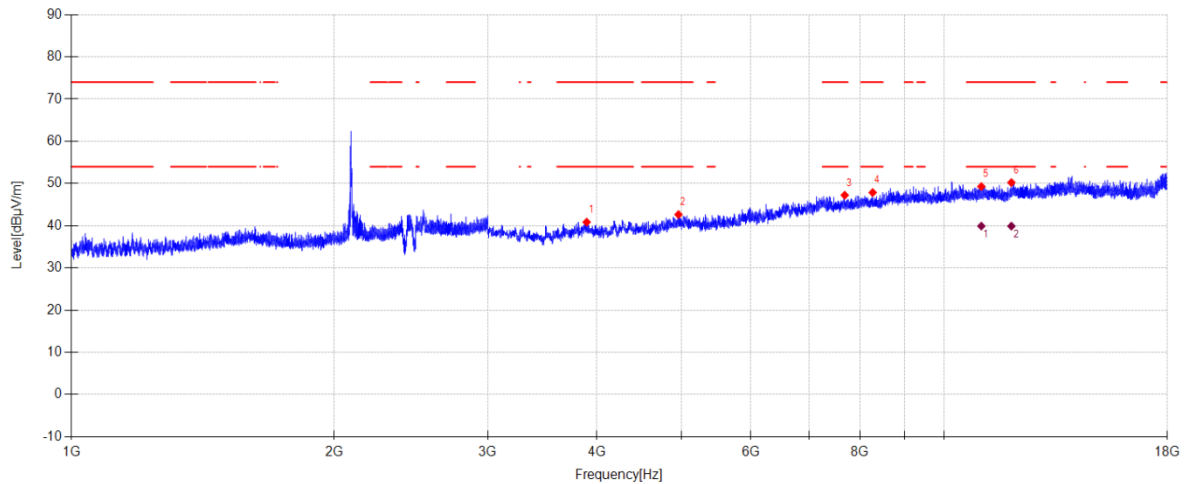
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11137.500	35.22	39.78	-35.36	39.64	54.00	14.36	AV	Horizontal
2	12007.500	34.88	39.81	-34.65	40.04	54.00	13.96	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-05-21 **Tested By:** Nan Zhong
Test Mode: TX 11b 2437MHz Mode **Power Supply:** DC 12V
Condition: Temp:23.2°C;Humi:56.5% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\4
Memo: Sample Number:S26042731-007 Power Setting:15



Suspected Data List

NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3892.500	49.32	31.59	-40.05	40.86	74.00	33.14	PK	Vertical
2	4959.000	49.42	33.74	-40.51	42.65	74.00	31.35	PK	Vertical
3	7687.500	48.74	37.30	-38.81	47.23	74.00	26.77	PK	Vertical
4	8275.500	48.07	37.95	-38.16	47.86	74.00	26.14	PK	Vertical
5	11022.000	44.76	39.70	-35.18	49.28	74.00	24.72	PK	Vertical
6	11932.500	45.21	39.67	-34.66	50.22	74.00	23.78	PK	Vertical

Final Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11022.000	35.39	39.70	-35.18	39.91	54.00	14.09	AV	Vertical
2	11932.500	34.89	39.67	-34.66	39.90	54.00	14.10	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX 11b 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

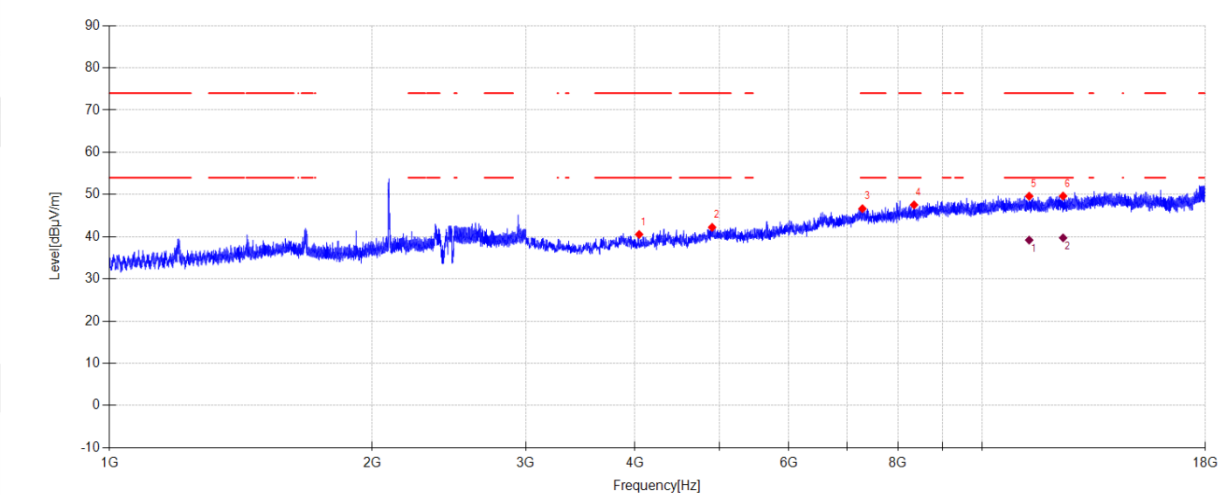
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\5

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4044.000	49.43	31.60	-40.48	40.55	74.00	33.45	PK	Horizontal
2	4902.000	49.11	33.51	-40.39	42.23	74.00	31.77	PK	Horizontal
3	7287.000	48.06	37.73	-39.15	46.64	74.00	27.36	PK	Horizontal
4	8349.000	47.89	38.00	-38.35	47.54	74.00	26.46	PK	Horizontal
5	11311.500	45.04	40.00	-35.44	49.60	74.00	24.40	PK	Horizontal
6	12370.500	44.81	39.73	-34.90	49.64	74.00	24.36	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11311.500	34.65	40.00	-35.44	39.21	54.00	14.79	AV	Horizontal
2	12370.500	34.90	39.73	-34.90	39.73	54.00	14.27	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX 11b 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

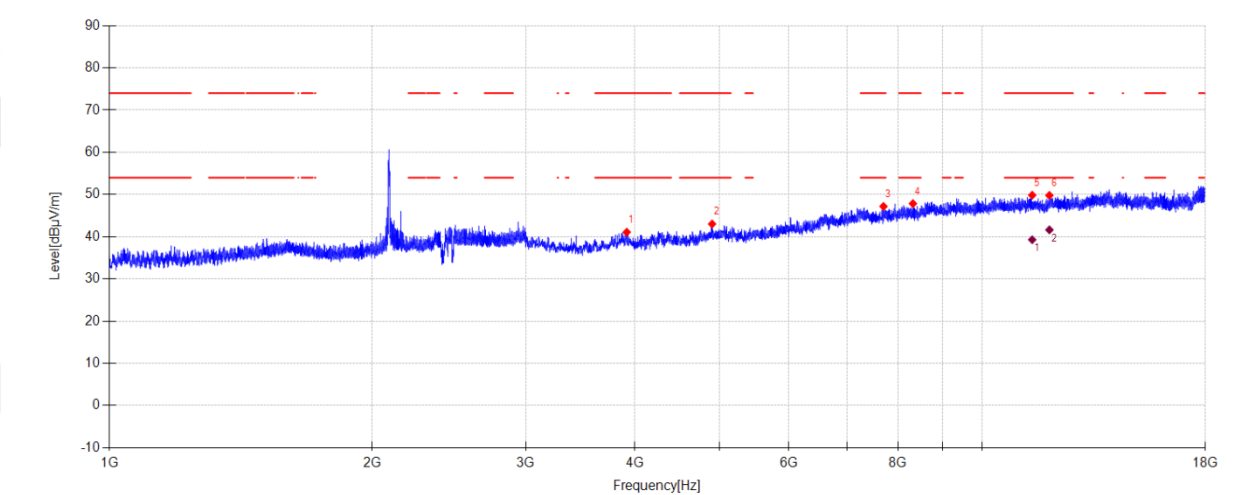
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\6

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3913.500	49.55	31.63	-40.10	41.08	74.00	32.92	PK	Vertical
2	4902.000	49.90	33.51	-40.39	43.02	74.00	30.98	PK	Vertical
3	7702.500	48.68	37.31	-38.81	47.18	74.00	26.82	PK	Vertical
4	8325.000	48.09	38.00	-38.25	47.84	74.00	26.16	PK	Vertical
5	11401.500	45.32	40.00	-35.48	49.84	74.00	24.16	PK	Vertical
6	11931.000	44.79	39.66	-34.66	49.79	74.00	24.21	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11401.500	34.77	40.00	-35.48	39.29	54.00	14.71	AV	Vertical
2	11931.000	36.62	39.66	-34.66	41.62	54.00	12.38	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-24

Tested By:

Nan Zhong

Test Mode:

TX 11b 2412MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

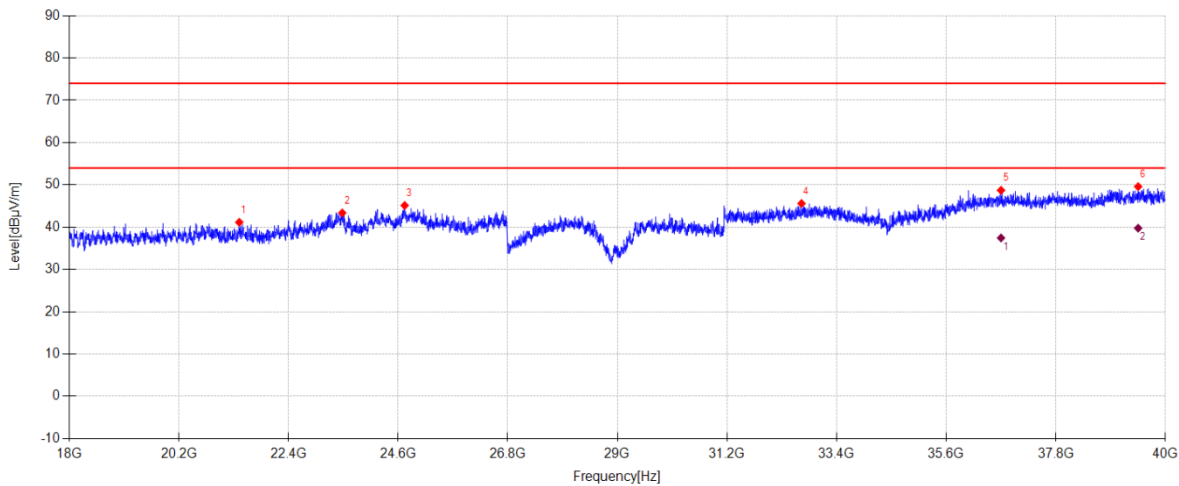
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\32

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	21411.061	49.68	38.44	3.86	41.15	74.00	32.85	PK	Horizontal
2	23479.184	50.30	39.20	4.69	43.37	74.00	30.63	PK	Horizontal
3	24730.802	50.89	39.47	4.69	45.13	74.00	28.87	PK	Horizontal
4	32697.107	46.80	41.48	5.23	45.60	74.00	28.40	PK	Horizontal
5	36701.746	48.85	42.87	6.28	48.72	74.00	25.28	PK	Horizontal
6	39454.767	47.31	46.26	6.64	49.59	74.00	24.41	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36701.746	37.58	42.87	6.28	37.45	54.00	16.55	AV	Horizontal
2	39454.767	37.48	46.26	6.64	39.76	54.00	14.24	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-24

Tested By:

Nan Zhong

Test Mode:

TX 11b 2412MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

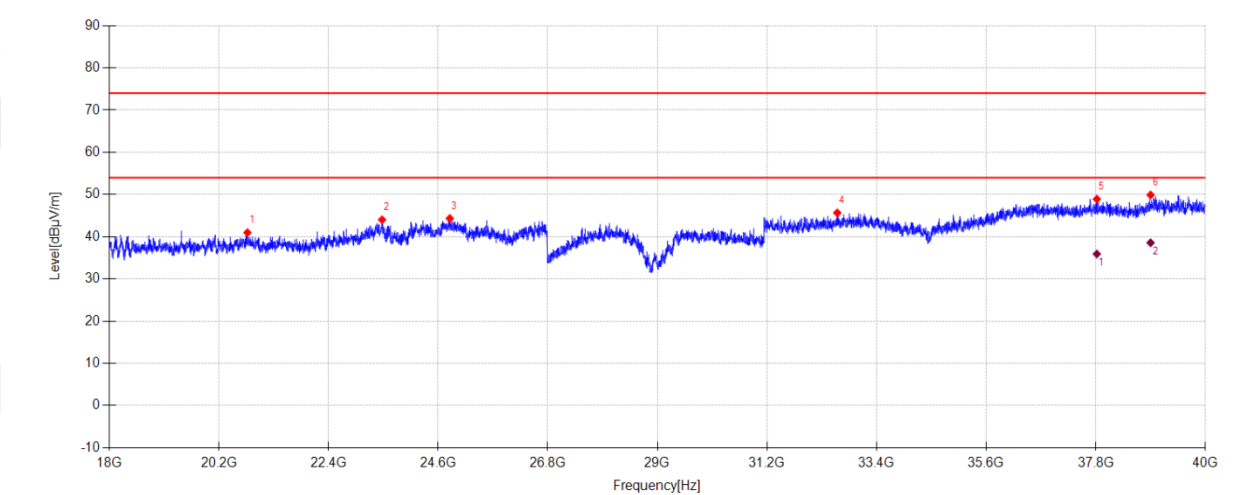
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\33

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	20771.823	49.22	38.33	3.75	40.97	74.00	33.03	PK	Vertical
2	23473.813	50.94	39.21	4.69	44.02	74.00	29.98	PK	Vertical
3	24832.865	49.99	39.52	4.71	44.33	74.00	29.67	PK	Vertical
4	32611.159	46.92	41.44	5.20	45.66	74.00	28.34	PK	Vertical
5	37821.756	48.86	43.72	5.42	48.91	74.00	25.09	PK	Vertical
6	38901.477	47.62	45.70	6.43	49.90	74.00	24.10	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	37821.756	35.86	43.72	5.42	35.91	54.00	18.09	AV	Vertical
2	38901.477	36.29	45.70	6.43	38.57	54.00	15.43	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-24

Tested By:

Nan Zhong

Test Mode:

TX 11b 2437MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

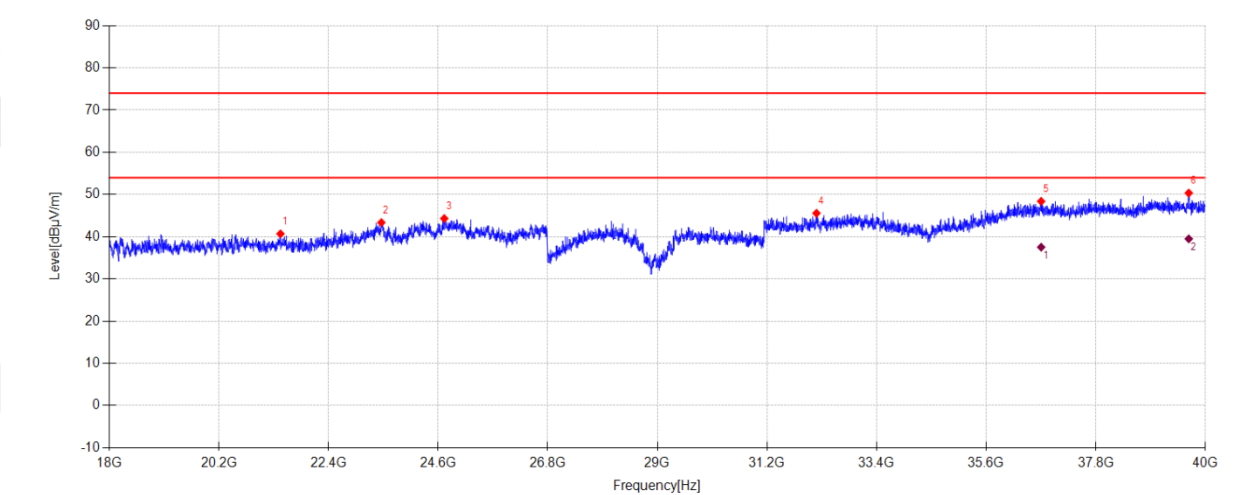
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\34

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	21435.234	49.22	38.44	3.87	40.69	74.00	33.31	PK	Horizontal
2	23460.383	50.31	39.21	4.68	43.36	74.00	30.64	PK	Horizontal
3	24722.744	50.08	39.46	4.69	44.31	74.00	29.69	PK	Horizontal
4	32194.848	46.87	41.28	5.28	45.57	74.00	28.43	PK	Horizontal
5	36704.432	48.52	42.87	6.28	48.39	74.00	25.61	PK	Horizontal
6	39666.952	48.34	46.43	6.52	50.35	74.00	23.65	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36704.432	37.65	42.87	6.28	37.52	54.00	16.48	AV	Horizontal
2	39666.952	37.49	46.43	6.52	39.50	54.00	14.50	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-24

Tested By:

Nan Zhong

Test Mode:

TX 11b 2437MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

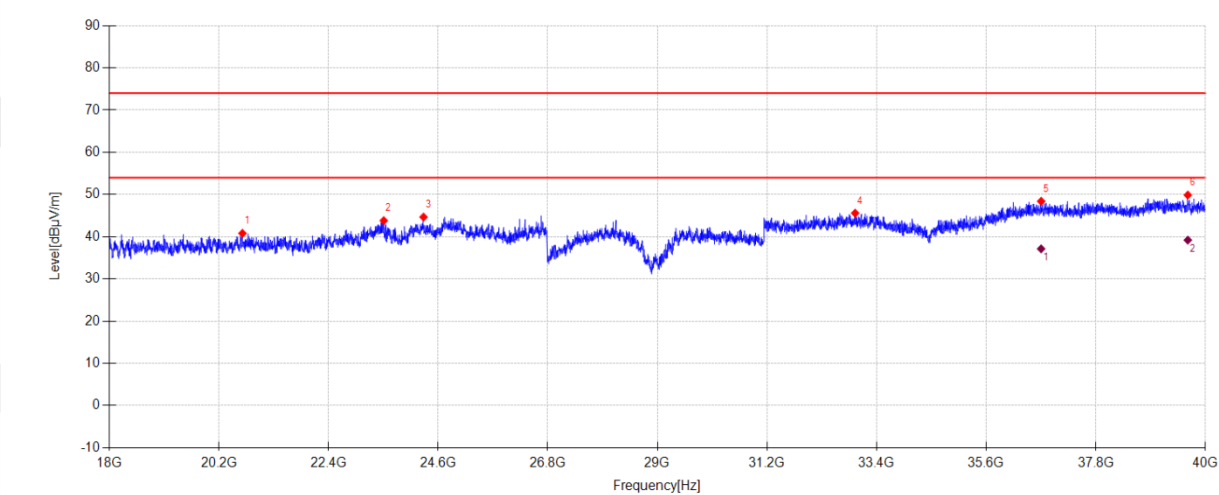
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\35

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	20672.445	48.96	38.30	3.79	40.80	74.00	33.20	PK	Vertical
2	23508.729	50.69	39.20	4.70	43.81	74.00	30.19	PK	Vertical
3	24306.434	50.87	39.25	4.58	44.65	74.00	29.35	PK	Vertical
4	32971.066	46.58	41.59	5.35	45.58	74.00	28.42	PK	Vertical
5	36704.432	48.53	42.87	6.28	48.40	74.00	25.60	PK	Vertical
6	39648.150	47.82	46.42	6.54	49.87	74.00	24.13	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36704.432	37.26	42.87	6.28	37.13	54.00	16.87	AV	Vertical
2	39648.150	37.15	46.42	6.54	39.20	54.00	14.80	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-24

Tested By:

Nan Zhong

Test Mode:

TX 11b 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

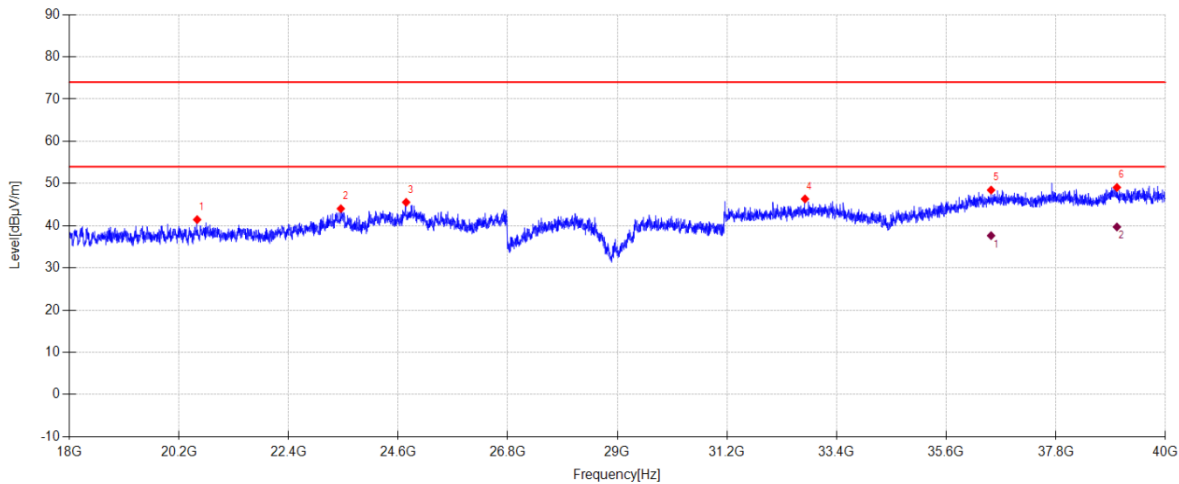
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\36

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	20565.010	49.49	38.27	3.83	41.44	74.00	32.56	PK	Horizontal
2	23449.640	51.01	39.21	4.68	44.04	74.00	29.96	PK	Horizontal
3	24760.347	51.29	39.48	4.70	45.56	74.00	28.44	PK	Horizontal
4	32766.939	47.50	41.51	5.26	46.35	74.00	27.65	PK	Horizontal
5	36502.991	48.39	42.85	6.45	48.45	74.00	25.55	PK	Horizontal
6	39027.713	46.54	45.92	6.59	49.07	74.00	24.93	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36502.991	37.59	42.85	6.45	37.65	54.00	16.35	AV	Horizontal
2	39027.713	37.18	45.92	6.59	39.71	54.00	14.29	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-24

Tested By:

Nan Zhong

Test Mode:

TX 11b 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

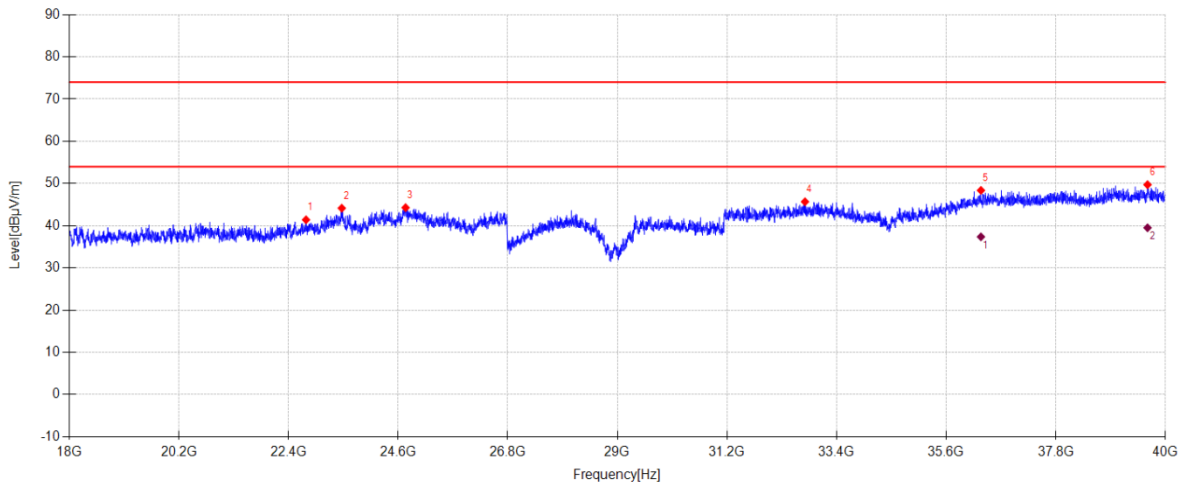
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\37

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	22751.312	49.37	39.10	4.33	41.41	74.00	32.59	PK	Vertical
2	23468.441	51.09	39.21	4.69	44.16	74.00	29.84	PK	Vertical
3	24749.603	50.04	39.47	4.69	44.28	74.00	29.72	PK	Vertical
4	32766.939	46.83	41.51	5.26	45.68	74.00	28.32	PK	Vertical
5	36298.865	48.59	42.83	6.16	48.38	74.00	25.62	PK	Vertical
6	39642.779	47.66	46.41	6.54	49.71	74.00	24.29	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36298.865	37.58	42.83	6.16	37.37	54.00	16.63	AV	Vertical
2	39642.779	37.46	46.41	6.54	39.51	54.00	14.49	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

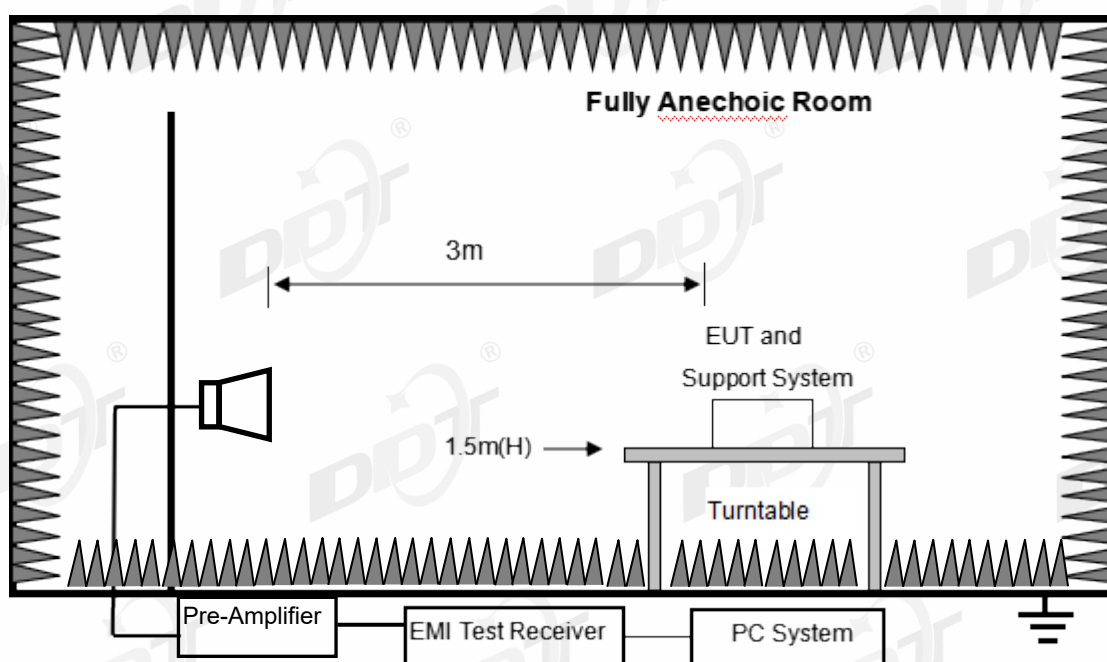
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Band Edge Compliance

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
Band Reject Filter Group	Tonscend	JS0806-F	DDT-ZC05733	/	/
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC05922	2027/01/06	1 Year
Broadband Preamplifier	HPX	BP-01G-18G	DDT-ZC05923	2027/01/06	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05	1 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04	1 Year
Signal & Spectrum analyzer	R&S	FSV40-N	DDT-ZC04979	2026/07/04	1 Year
SPECTRUM ANALYZER	R&S	FSU26	DDT-ZC00236	2026/07/06	1 Year
RF Cable	Tonscend	7+1+1+0.5+0.5m	DDT-ZC05978	2027/01/29	1 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04	1 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27	1 Year
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10	1 Year
Radiation disturbance fully automated test software	Tonscend	JS-RE&RSE (V5.0.0)	DDT-ZC06466	/	/

13.2. Block diagram of test setup



13.3. Limits

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

13.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
HP 66 6 th Gen Core Edition 15.6-inch iaptop	HP	HP ProBook450 G10	Test computer	/
DC Power Source	Varied	RU-150-30050	DC stabilized power supply	/
CAN signal source	Huizhou Foryou General Electronics Co., Ltd.	TR311U-WH	Auxiliary power supply	/

13.5. Test procedure

Same with Radiated Emission except change investigated frequency range.

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

13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-05-21

Tested By: Nan Zhong

Test Mode: TX N20 2462MHz Mode

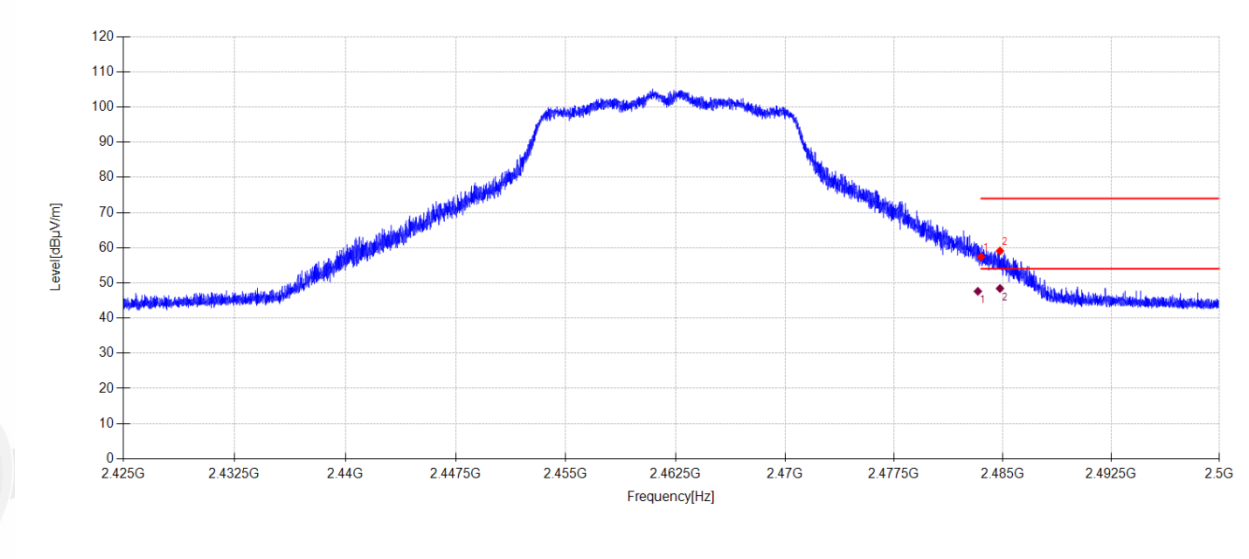
Power Supply: DC 12V

Condition: Temp:23.2°C;Humi:56.5%

Test Site: 4# Fully Anechoic Room

File Path: d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\16

Memo: Sample Number:S26042731-007 Power Setting:12



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	57.52	28.60	-28.72	57.40	74.00	16.60	PK	Horizontal
2	2484.805	59.20	28.61	-28.72	59.09	74.00	14.91	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.280	47.72	28.60	-28.72	47.60	54.00	6.40	AV	Horizontal
2	2484.805	48.53	28.61	-28.72	48.42	54.00	5.58	AV	Horizontal

Note:
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX N20 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

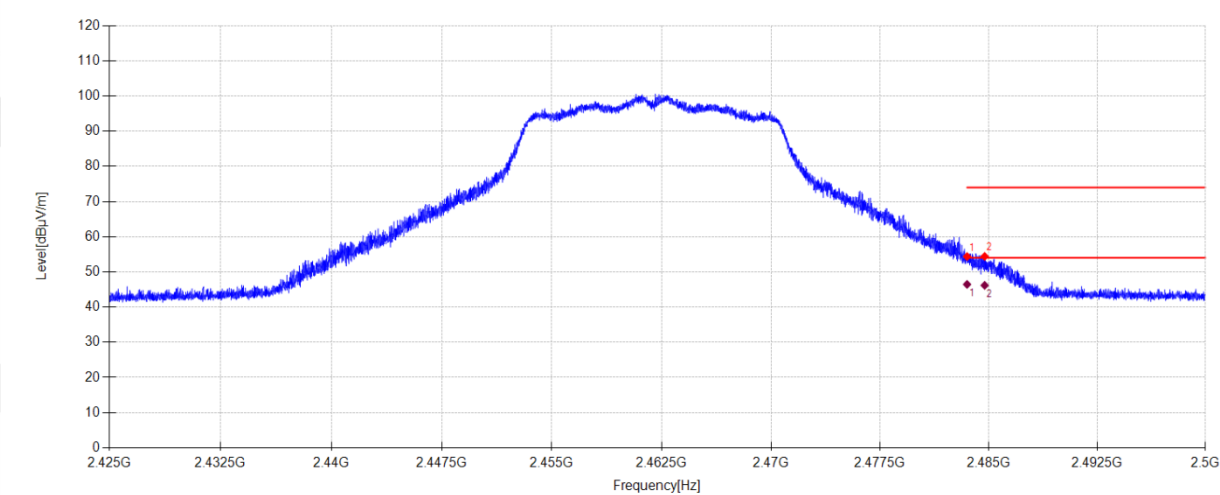
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\17

Memo:

Sample Number:S26042731-007 Power Setting:12



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	54.49	28.60	-28.72	54.37	74.00	19.63	PK	Vertical
2	2484.715	54.51	28.61	-28.72	54.40	74.00	19.60	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	46.57	28.60	-28.72	46.45	54.00	7.55	AV	Vertical
2	2484.715	46.29	28.61	-28.72	46.18	54.00	7.82	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX N20 2412MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

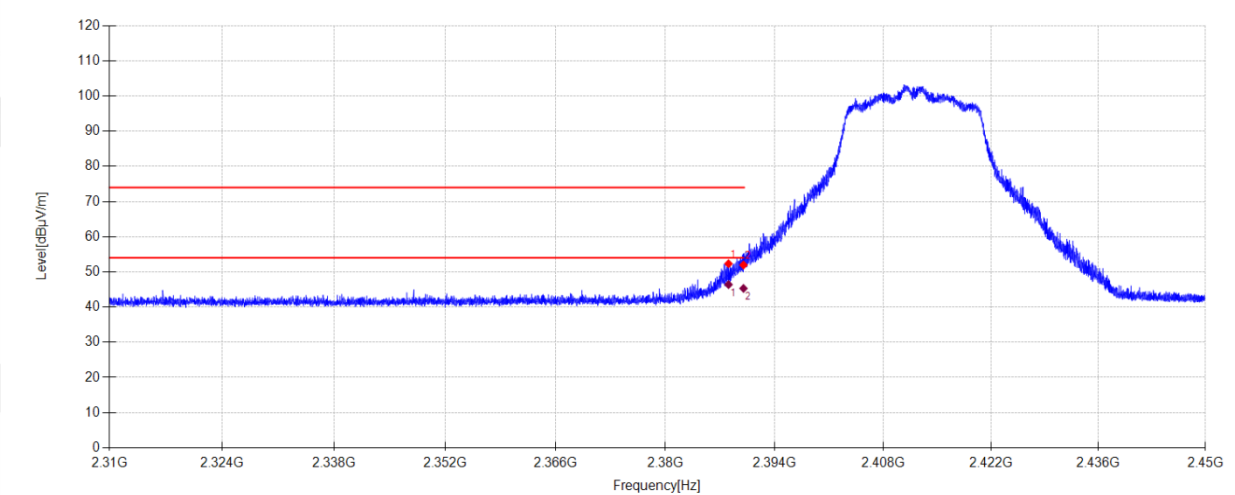
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\18

Memo:

Sample Number:S26042731-007 Power Setting:12



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.078	52.79	28.18	-28.64	52.33	74.00	21.67	PK	Horizontal
2	2390.000	52.41	28.18	-28.63	51.96	74.00	22.04	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.078	46.85	28.18	-28.64	46.39	54.00	7.61	AV	Horizontal
2	2390.000	45.76	28.18	-28.63	45.31	54.00	8.69	AV	Horizontal

Note:

- 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:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX N20 2412MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

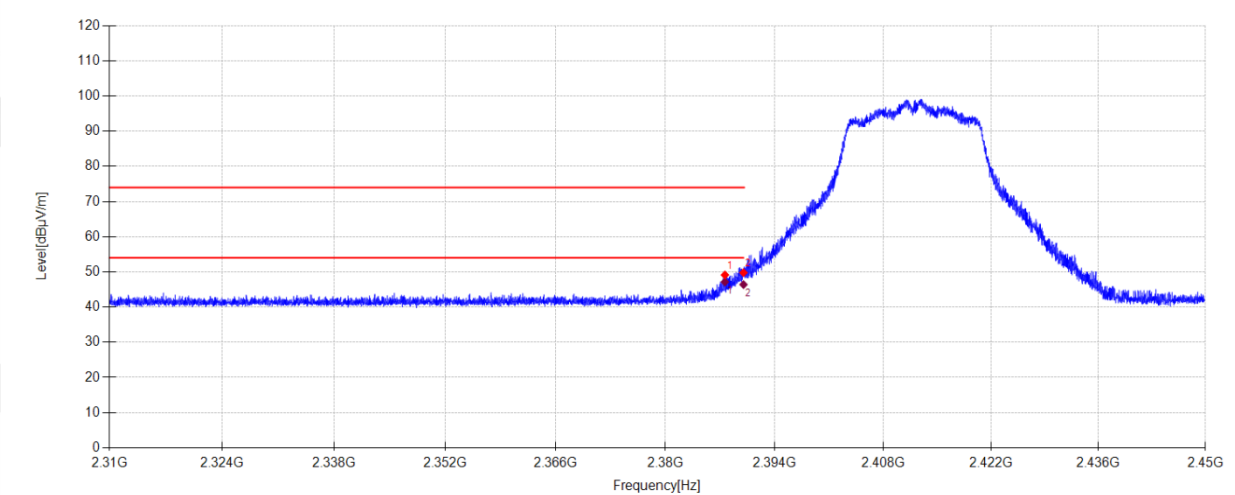
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\19

Memo:

Sample Number:S26042731-007 Power Setting:12



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.616	49.59	28.18	-28.64	49.13	74.00	24.87	PK	Vertical
2	2390.000	50.23	28.18	-28.63	49.78	74.00	24.22	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.616	47.62	28.18	-28.64	47.16	54.00	6.84	AV	Vertical
2	2390.000	46.85	28.18	-28.63	46.40	54.00	7.60	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX N40 2422MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

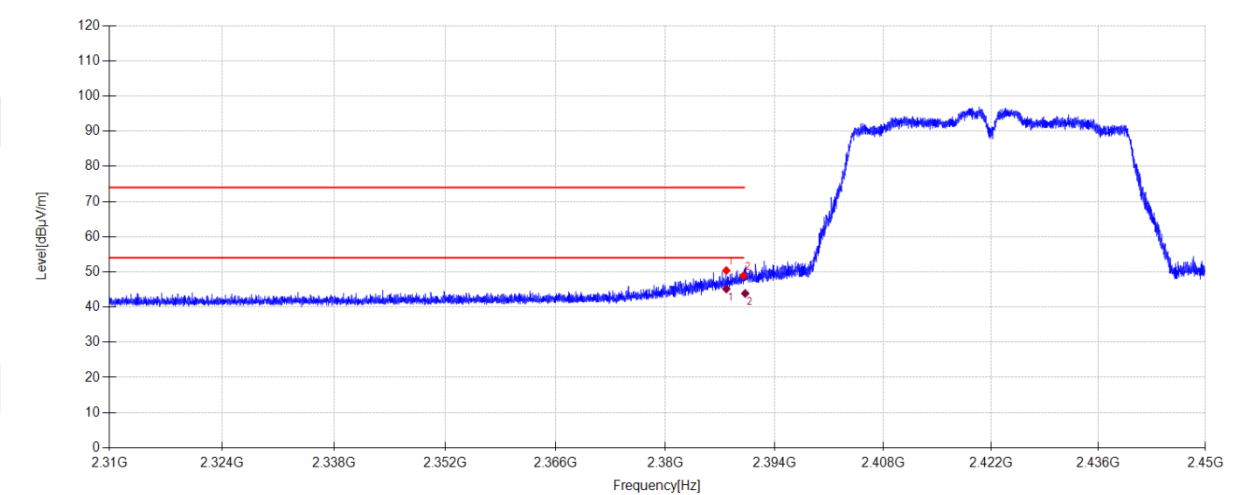
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\20

Memo:

Sample Number:S26042731-007 Power Setting:8



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.798	50.85	28.18	-28.64	50.39	74.00	23.61	PK	Horizontal
2	2390.000	49.34	28.18	-28.63	48.89	74.00	25.11	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.798	45.62	28.18	-28.64	45.16	54.00	8.84	AV	Horizontal
2	2390.220	44.32	28.18	-28.63	43.87	51.97	8.10	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX N40 2422MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

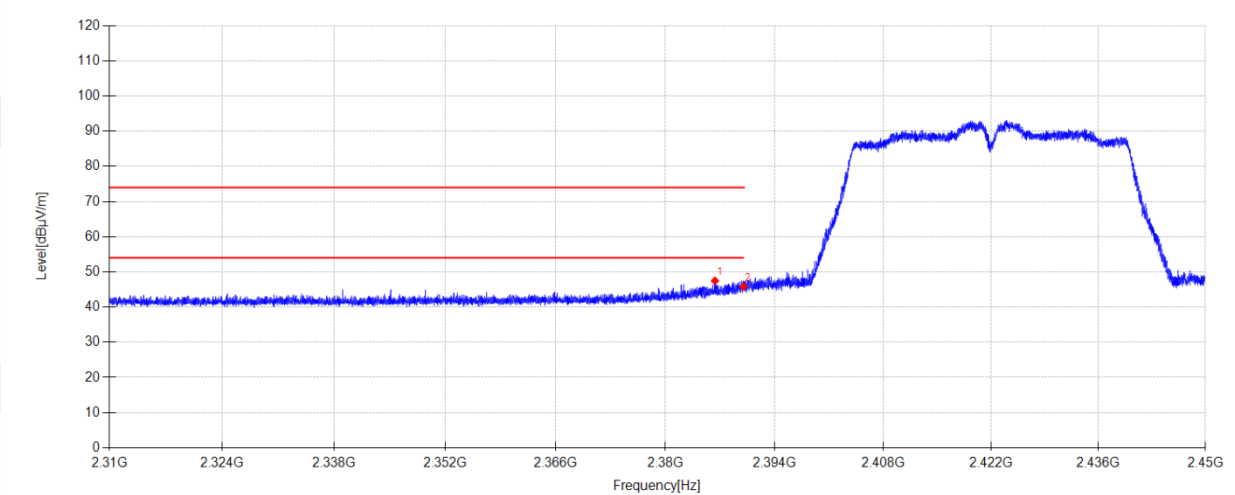
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\21

Memo:

Sample Number:S26042731-007 Power Setting:8



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.342	47.94	28.17	-28.64	47.47	74.00	26.53	PK	Vertical
2	2390.000	46.29	28.18	-28.63	45.84	74.00	28.16	PK	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX N40 2452MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

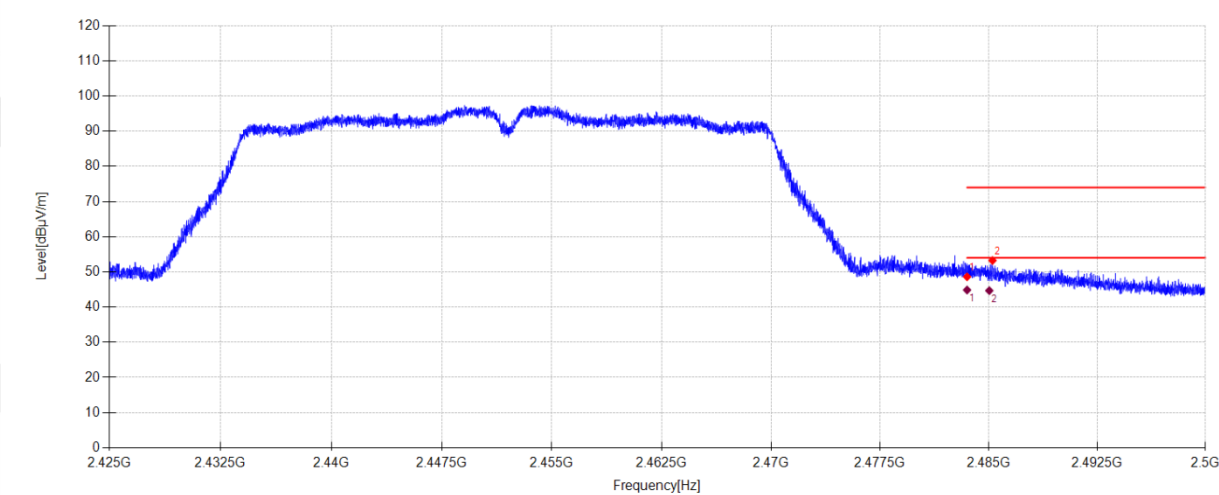
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\22

Memo:

Sample Number:S26042731-007 Power Setting:8



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	48.72	28.60	-28.72	48.60	74.00	25.40	PK	Horizontal
2	2485.255	53.34	28.61	-28.72	53.23	74.00	20.77	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	44.98	28.60	-28.72	44.86	54.00	9.14	AV	Horizontal
2	2485.035	44.79	28.61	-28.72	44.68	54.00	9.32	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-21

Tested By:

Nan Zhong

Test Mode:

TX N40 2452MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

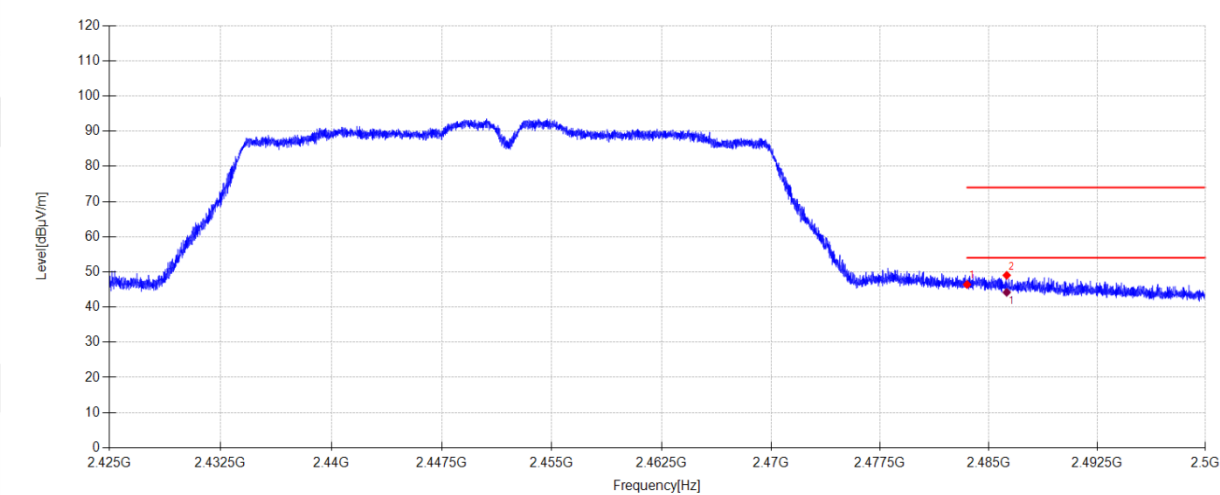
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\23

Memo:

Sample Number:S26042731-007 Power Setting:8



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	46.52	28.60	-28.72	46.40	74.00	27.60	PK	Vertical
2	2486.238	49.14	28.62	-28.72	49.04	74.00	24.96	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2486.238	44.28	28.62	-28.72	44.18	54.00	9.82	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-22

Tested By:

Nan Zhong

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

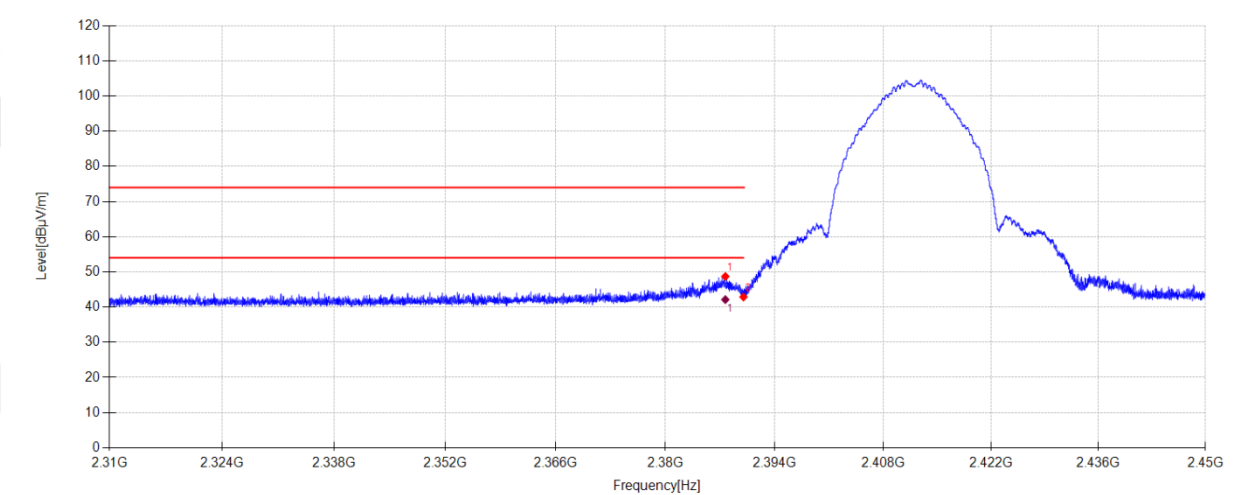
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\24

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.672	49.15	28.18	-28.64	48.69	74.00	25.31	PK	Horizontal
2	2390.000	43.32	28.18	-28.63	42.87	74.00	31.13	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.672	42.58	28.18	-28.64	42.12	54.00	11.88	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-22

Tested By:

Nan Zhong

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

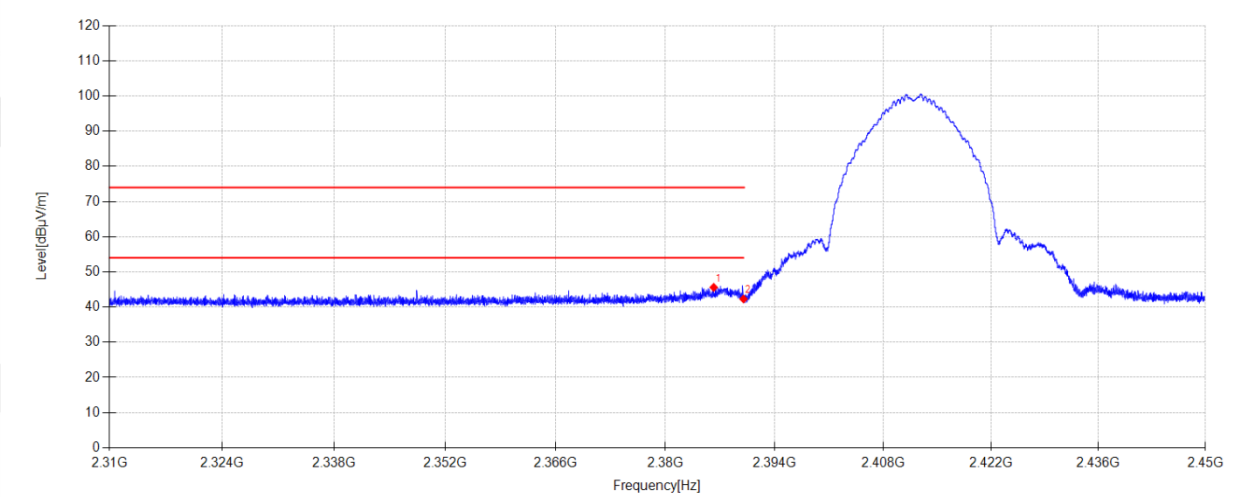
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\25

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.188	46.07	28.17	-28.64	45.60	74.00	28.40	PK	Vertical
2	2390.000	42.75	28.18	-28.63	42.30	74.00	31.70	PK	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-22

Tested By:

Nan Zhong

Test Mode:

TX 11B 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

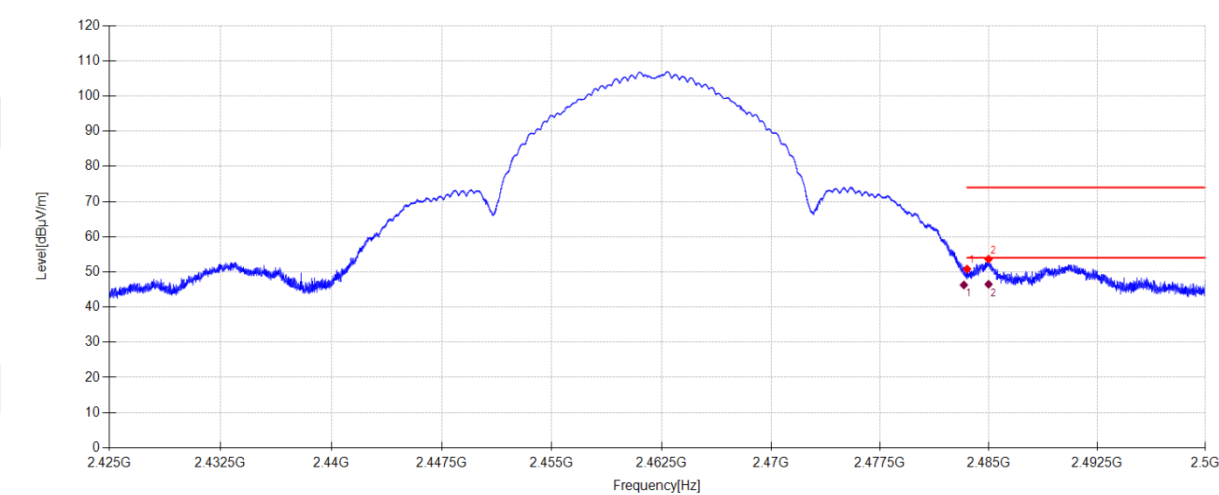
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\26

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	50.92	28.60	-28.72	50.80	74.00	23.20	PK	Horizontal
2	2484.985	53.74	28.61	-28.72	53.63	74.00	20.37	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.282	46.40	28.60	-28.72	46.28	54.00	7.72	AV	Horizontal
2	2484.985	46.59	28.61	-28.72	46.48	54.00	7.52	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-22

Tested By:

Nan Zhong

Test Mode:

TX 11B 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

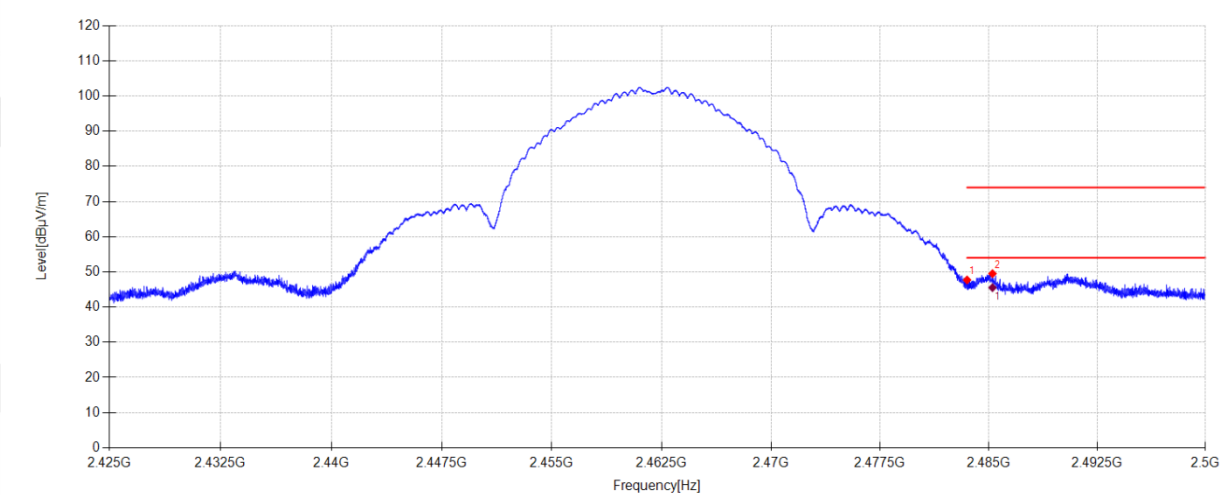
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\27

Memo:

Sample Number:S26042731-007 Power Setting:15



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	47.83	28.60	-28.72	47.71	74.00	26.29	PK	Vertical
2	2485.255	49.61	28.61	-28.72	49.50	74.00	24.50	PK	Vertical

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2485.255	45.63	28.61	-28.72	45.52	54.00	8.48	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-22

Tested By:

Nan Zhong

Test Mode:

TX 11G 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

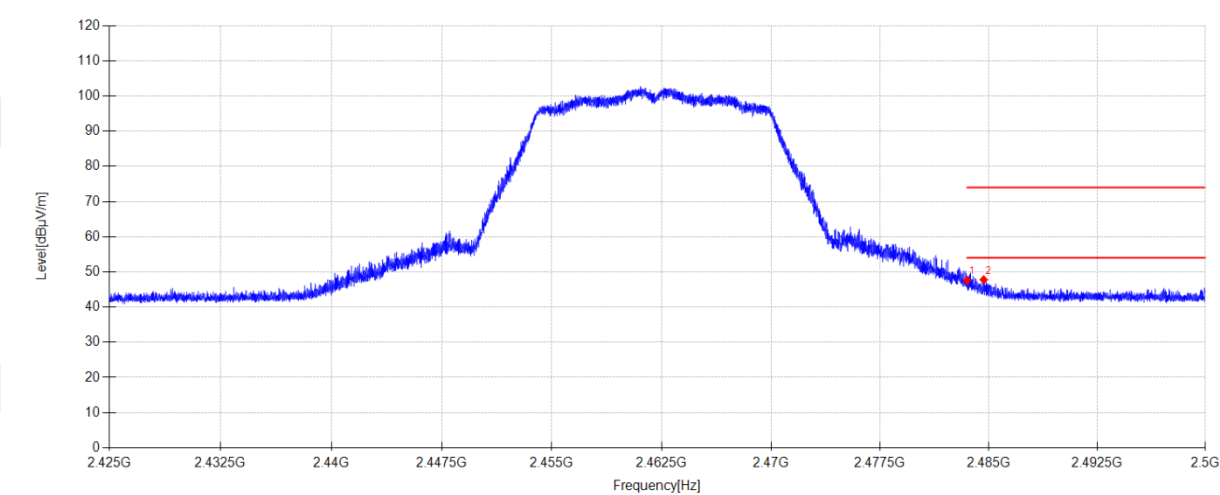
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\28

Memo:

Sample Number:S26042731-007 Power Setting:10



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	47.73	28.60	-28.72	47.61	74.00	26.39	PK	Horizontal
2	2484.648	47.91	28.61	-28.72	47.80	74.00	26.20	PK	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-22

Tested By:

Nan Zhong

Test Mode:

TX 11G 2462MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

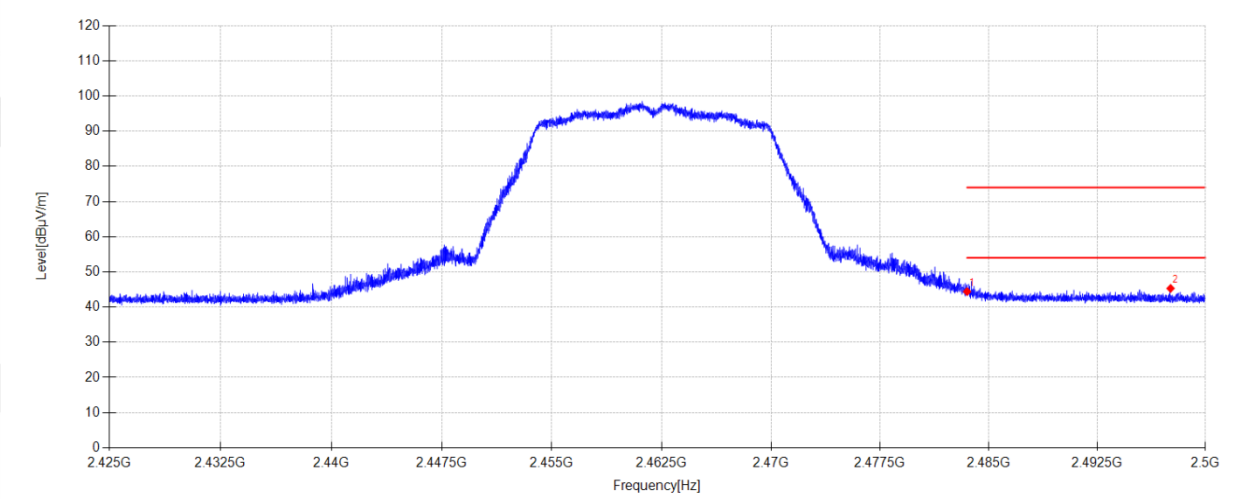
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\29

Memo:

Sample Number:S26042731-007 Power Setting:10



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	44.53	28.60	-28.72	44.41	74.00	29.59	PK	Vertical
2	2497.585	45.35	28.69	-28.74	45.30	74.00	28.70	PK	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-22

Tested By:

Nan Zhong

Test Mode:

TX 11G 2412MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

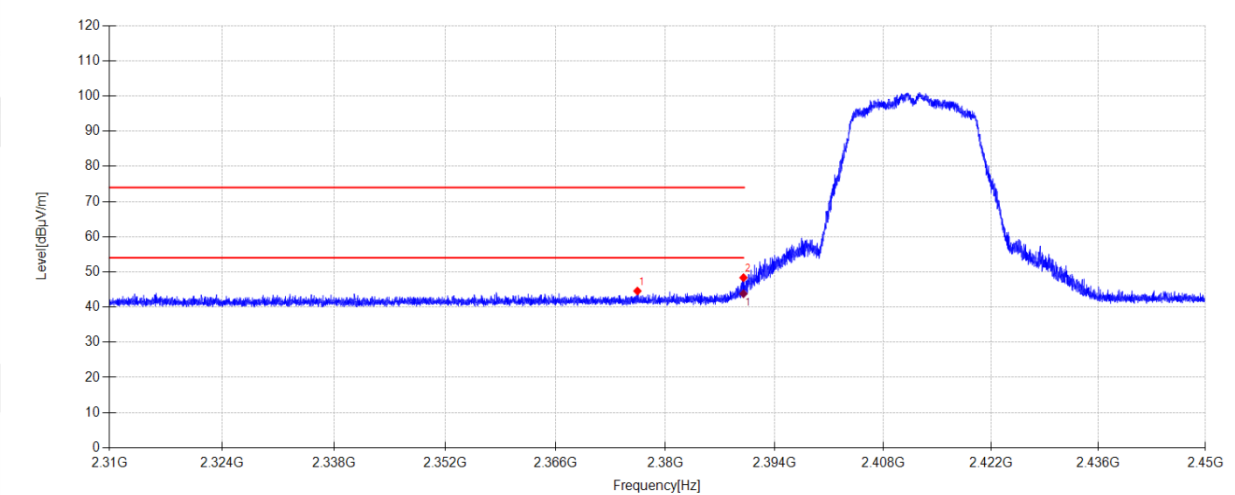
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\30

Memo:

Sample Number:S26042731-007 Power Setting:10



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2376.430	45.07	28.15	-28.66	44.56	74.00	29.44	PK	Horizontal
2	2390.000	48.81	28.18	-28.63	48.36	74.00	25.64	PK	Horizontal

Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2390.000	44.25	28.18	-28.63	43.80	54.00	10.20	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-05-22

Tested By:

Nan Zhong

Test Mode:

TX 11G 2412MHz Mode

Power Supply:

DC 12V

Condition:

Temp:23.2°C;Humi:56.5%

Test Site:

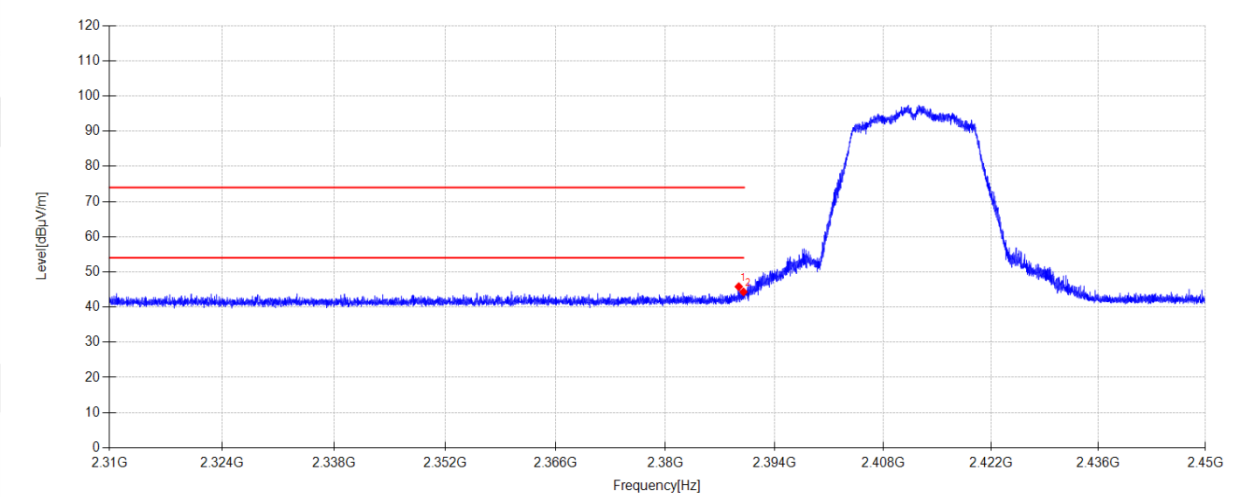
4# Fully Anechoic Room

File Path:

d:\ts\2026 report date\Q26042731-2E\FCC ABOVE 1G 2.4G\31

Memo:

Sample Number:S26042731-007 Power Setting:10



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.394	46.26	28.18	-28.63	45.81	74.00	28.19	PK	Vertical
2	2390.000	44.77	28.18	-28.63	44.32	74.00	29.68	PK	Vertical

Note:

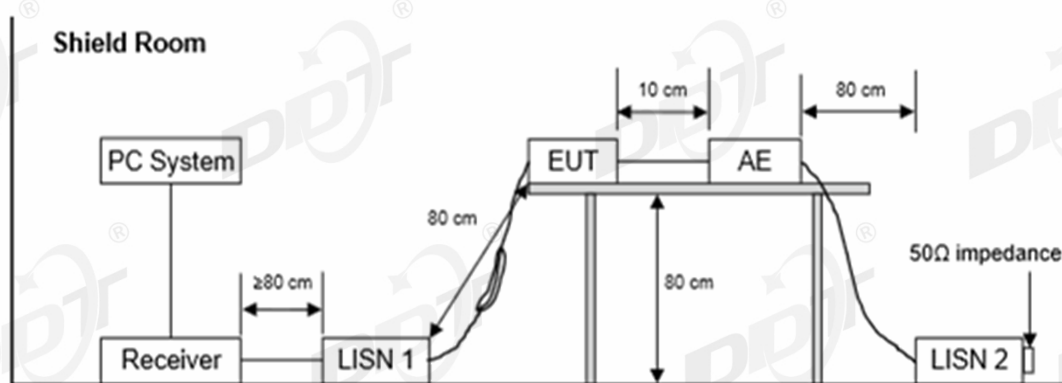
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Power Line Conducted Emissions

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
/	/	/	/	/

14.2. Block diagram of test setup



14.3. 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.

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

14.5. 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.

14.6. Test result

Not applicable, for the product is DC powered.

16. Photos of the EUT

Please refer to DDT-Q26042731-1E appendix I

-----End Report-----