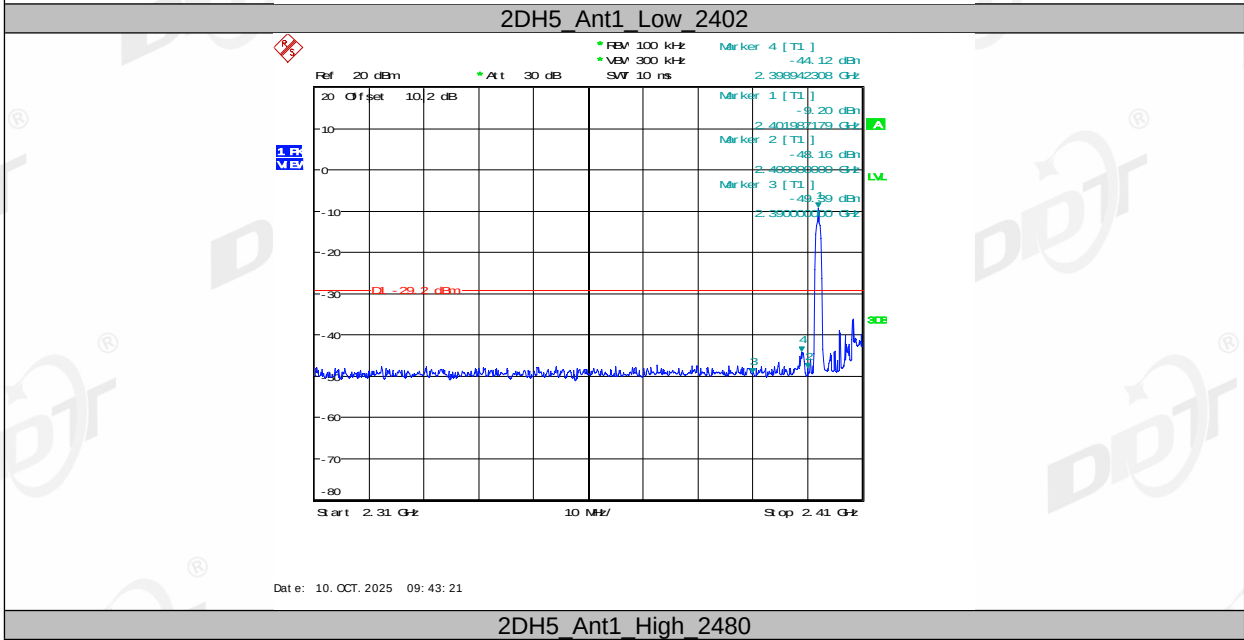
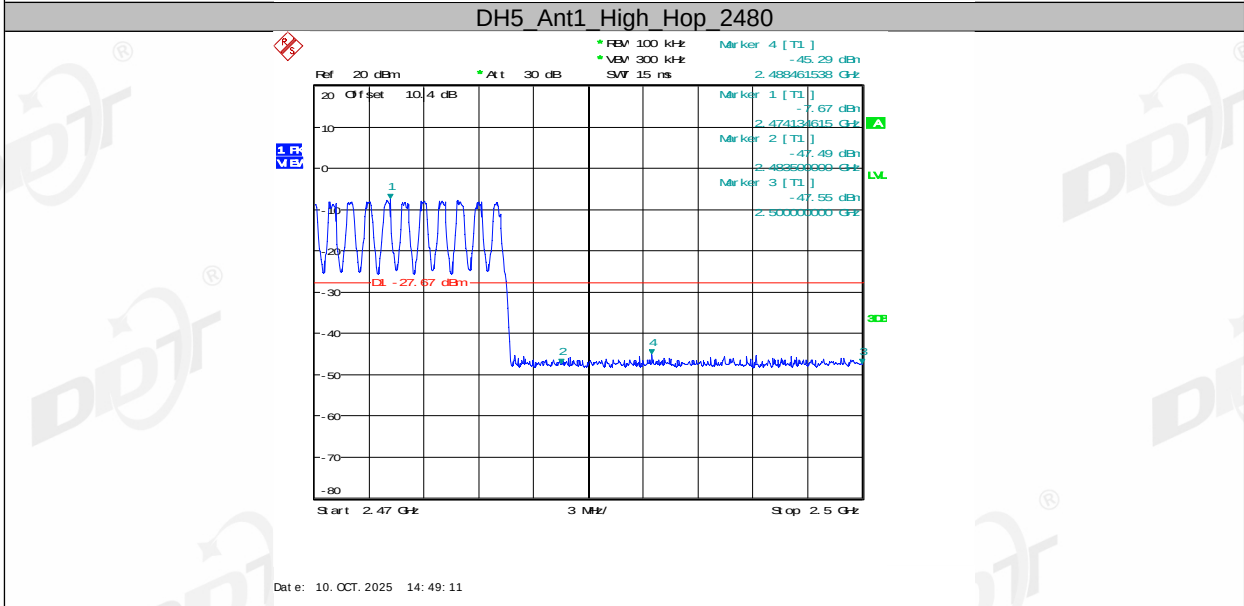
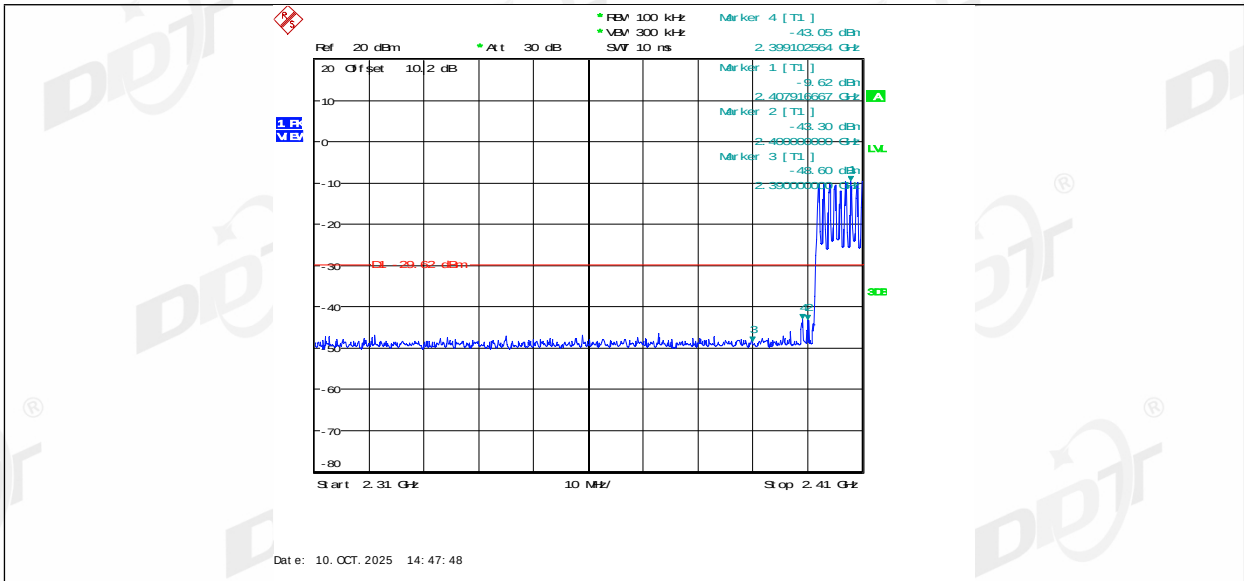
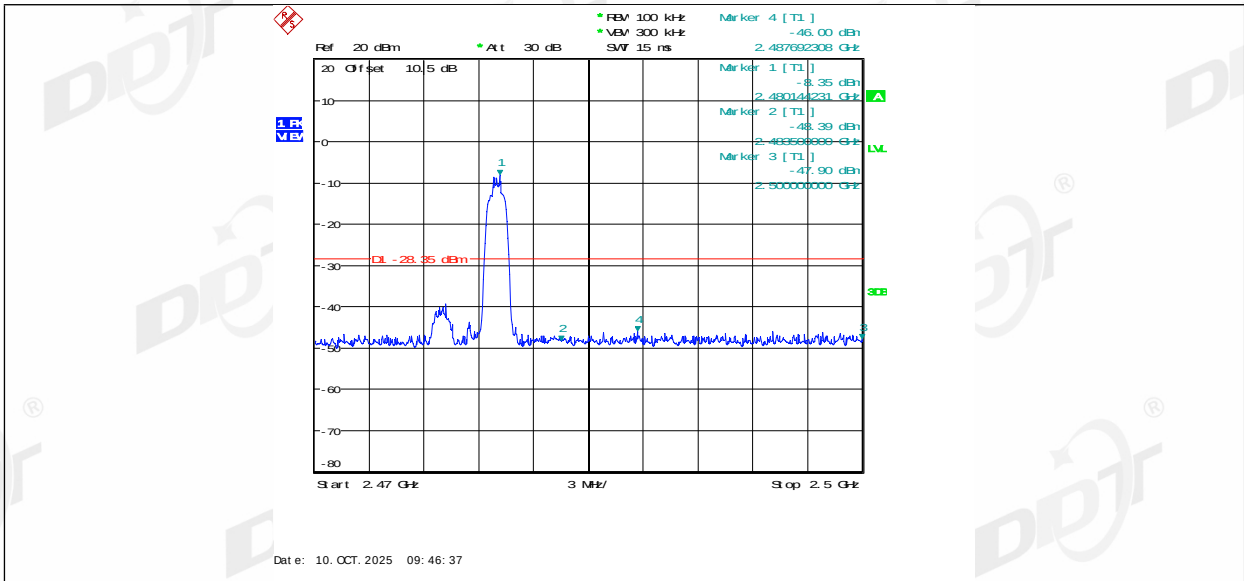
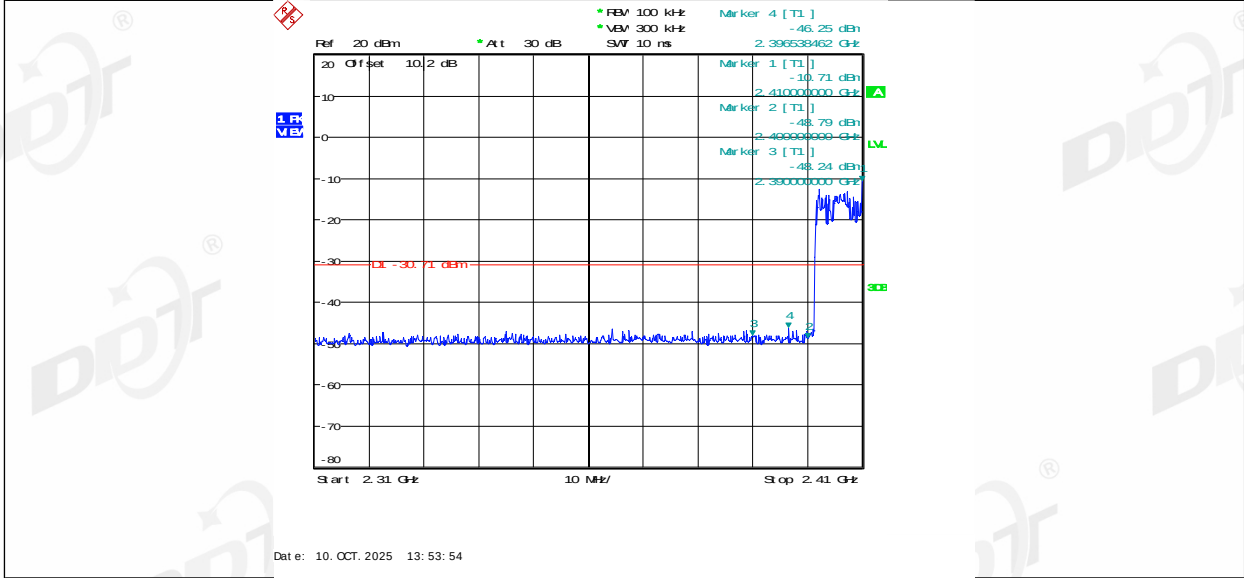


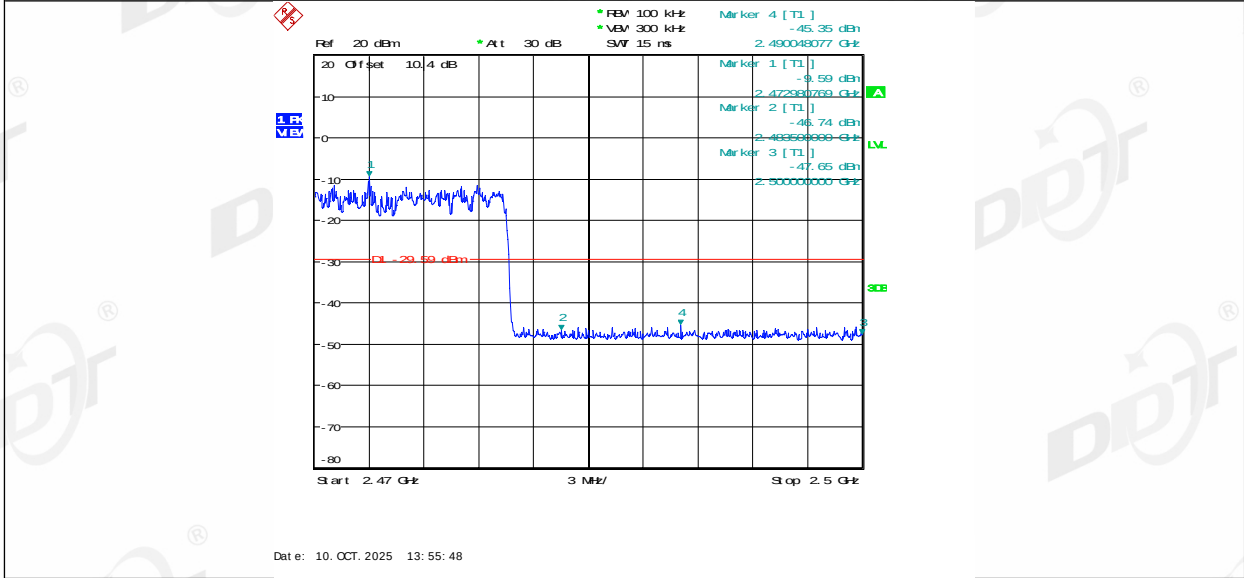




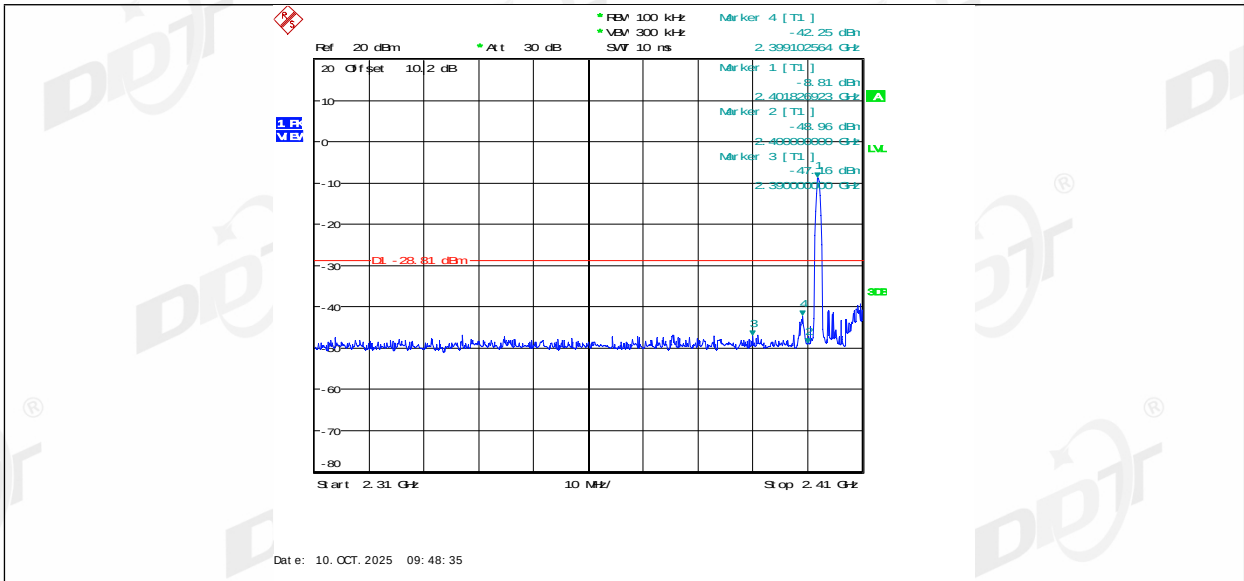
2DH5 Ant1 Low Hop 2402



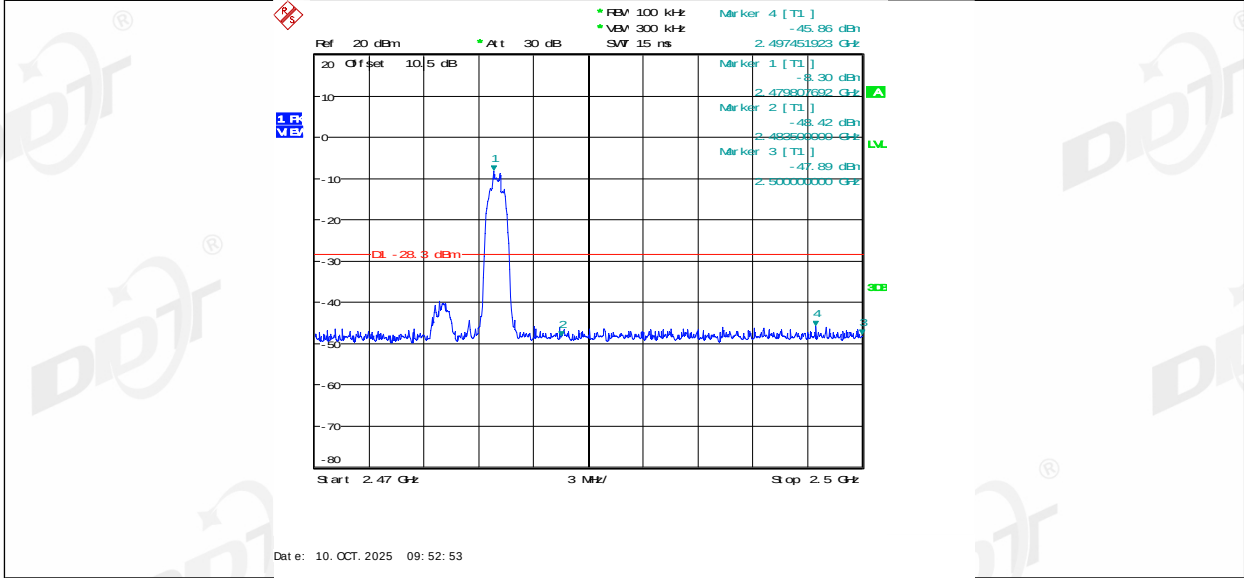
2DH5 Ant1 High Hop 2480



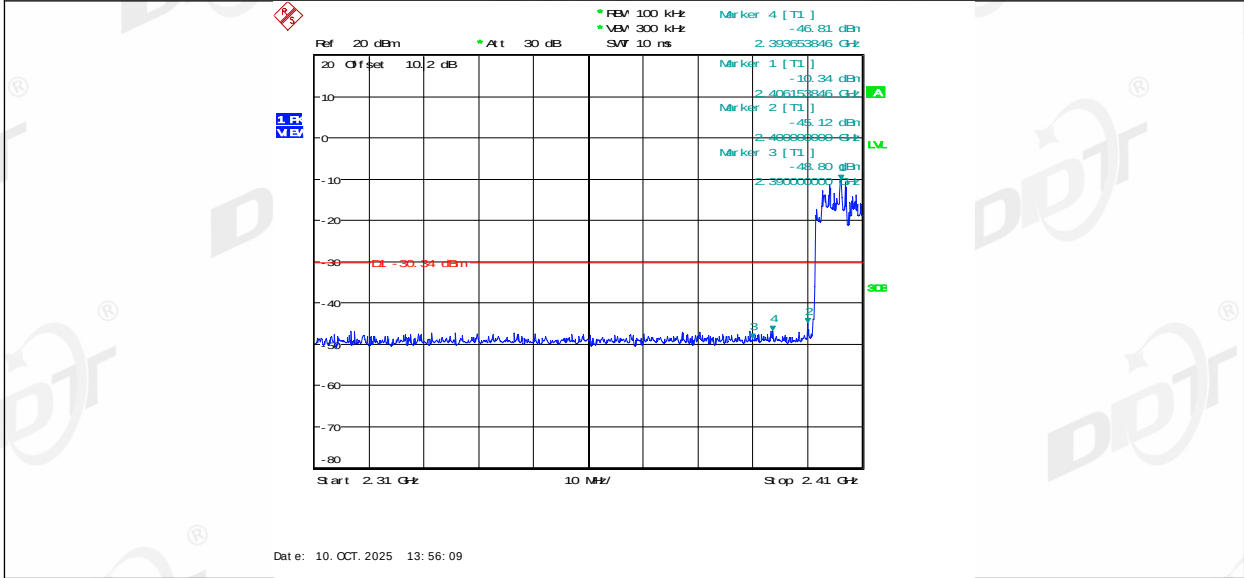
3DH5 Ant1 Low 2402



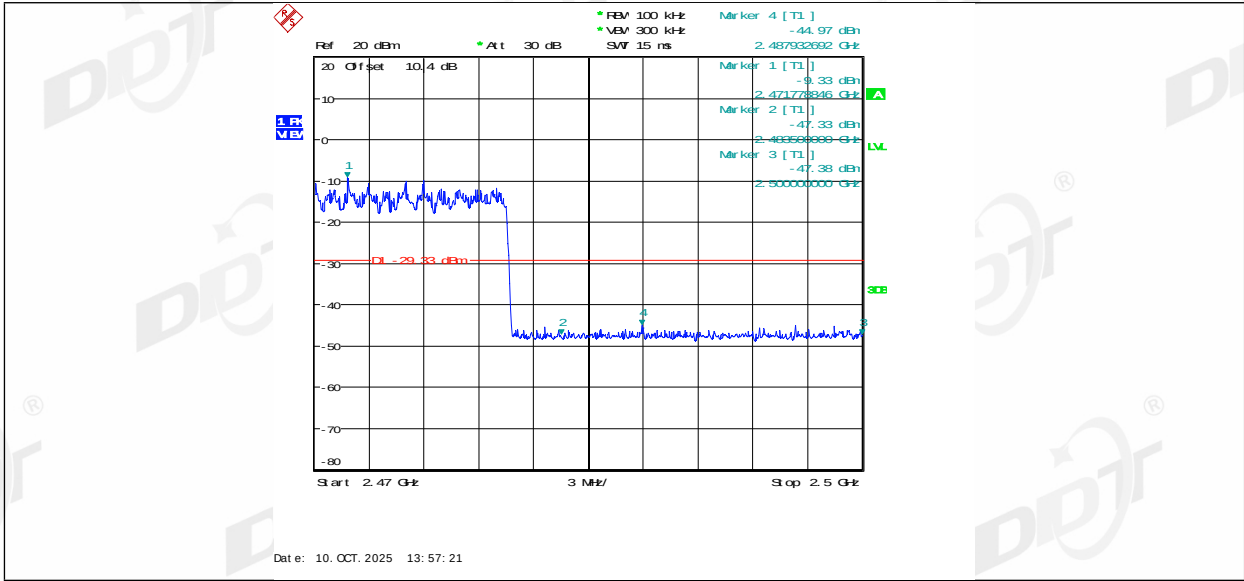
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

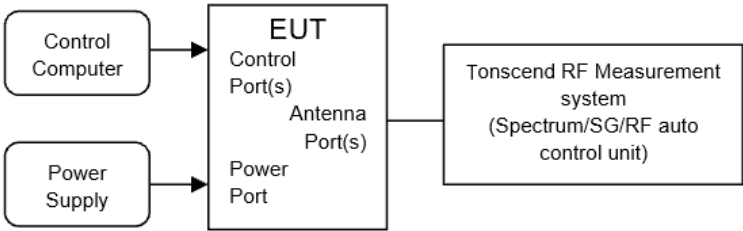


3DH5_Ant1_High_Hop_2480



11. RF Conducted Spurious Emissions

11.1. Block diagram of test setup



11.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

11.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency

Test frequency

RBW:

100 kHz

VBW:

300 kHz

Span

Wide enough to capture the peak level of the in-band emission

Detector Mode:

Peak

Sweep time:

Auto

Trace mode

Max hold

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

(4) Set the spectrum analyzer as follows:

RBW:

100 kHz

VBW:

300 kHz

Span

Encompass frequency range to be measured

Number of measurement points

≥Span/RBW

Detector Mode:

Peak

Sweep time:

Auto

Trace mode

Max hold

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

11.4. Test result

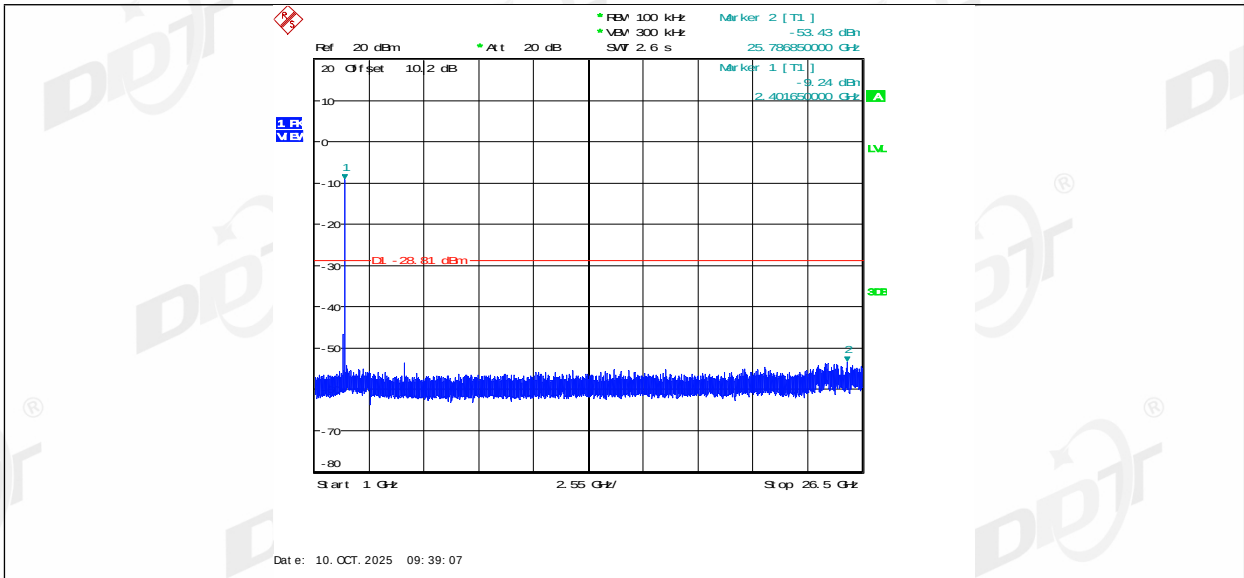
Test Engineer:	Wayne Huang	Test Site:	RF Measurement system 1#
Ambient Condition:	24.5℃,44.7%RH	Test Date:	2025.10.10
Test Power	Battery	Sample Number:	S25090308-006

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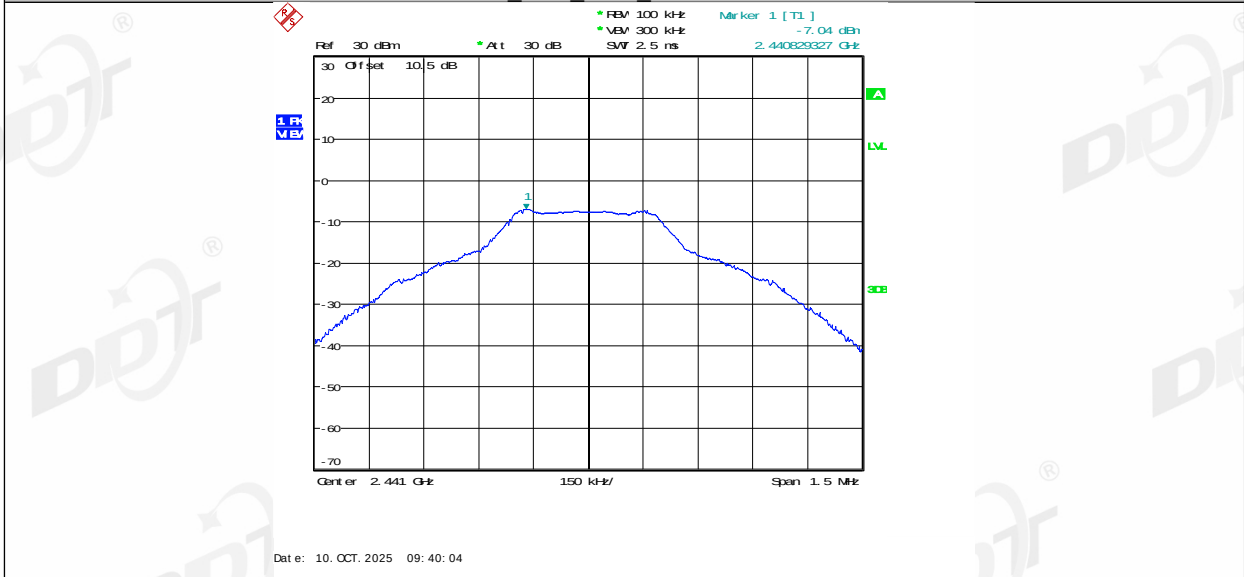
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass

11.5. Test graphs

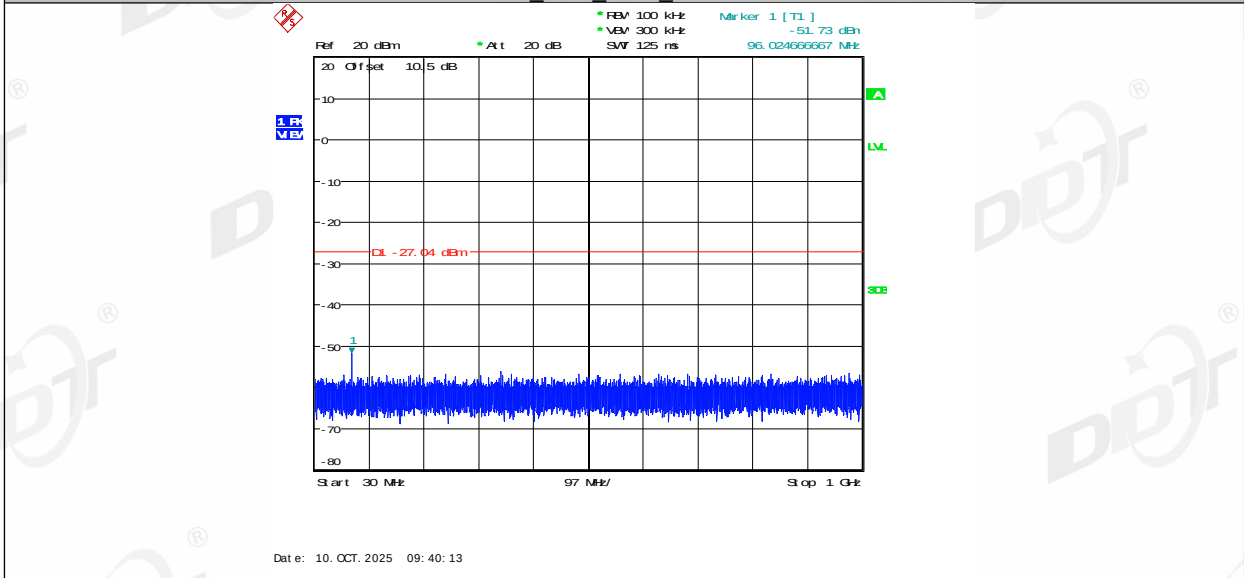




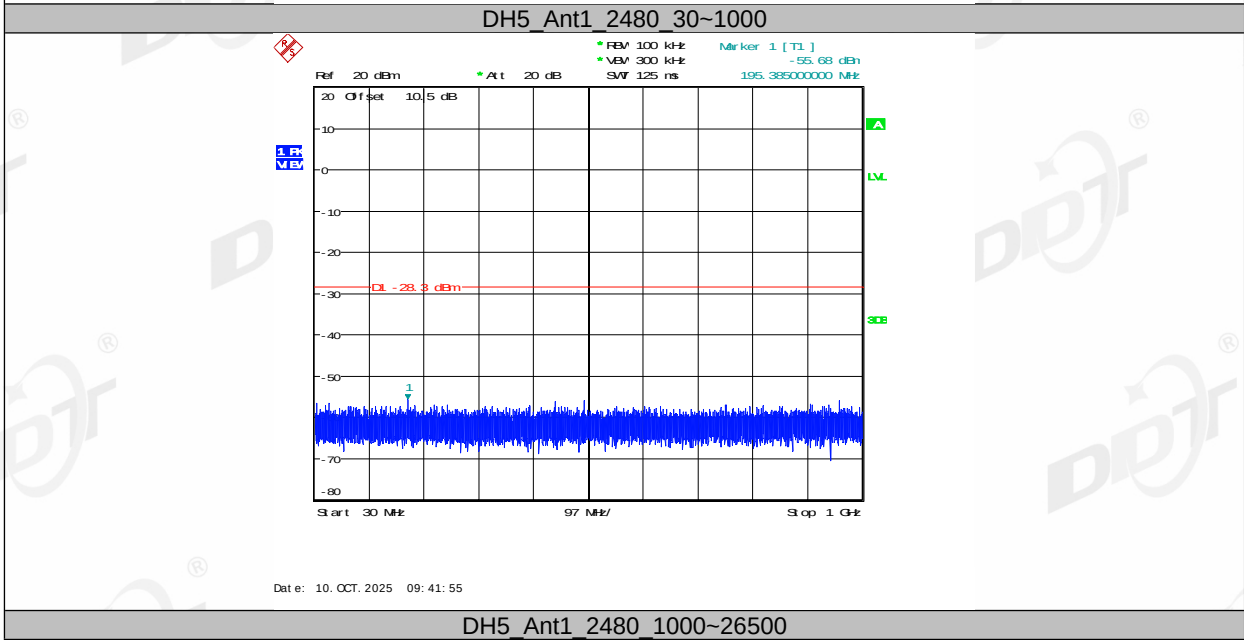
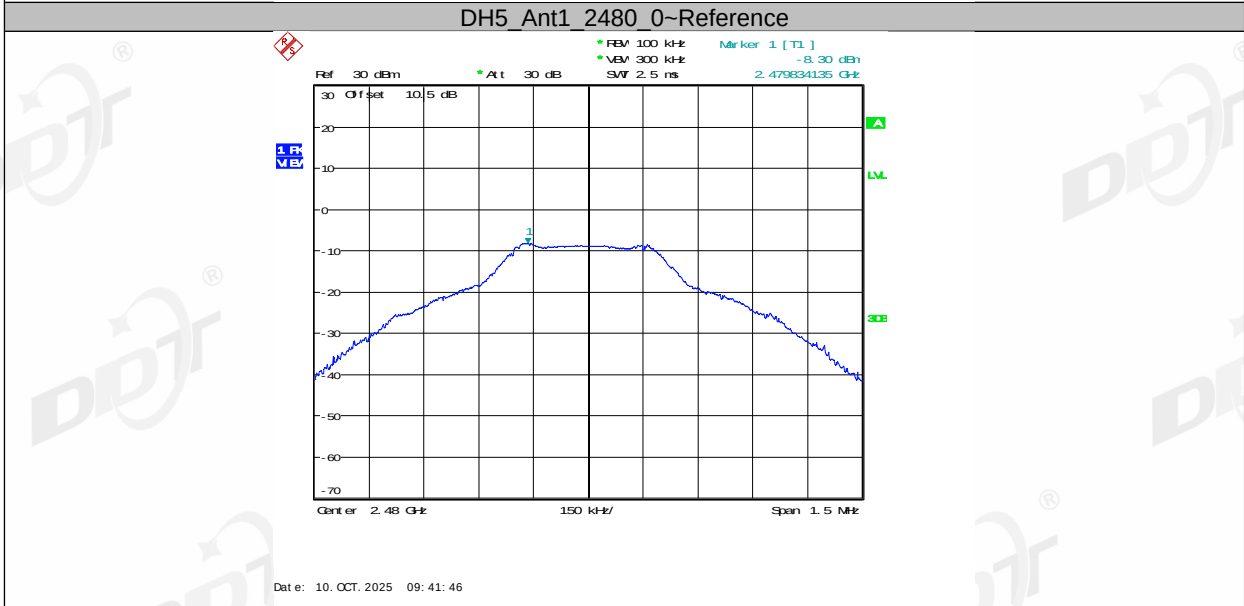
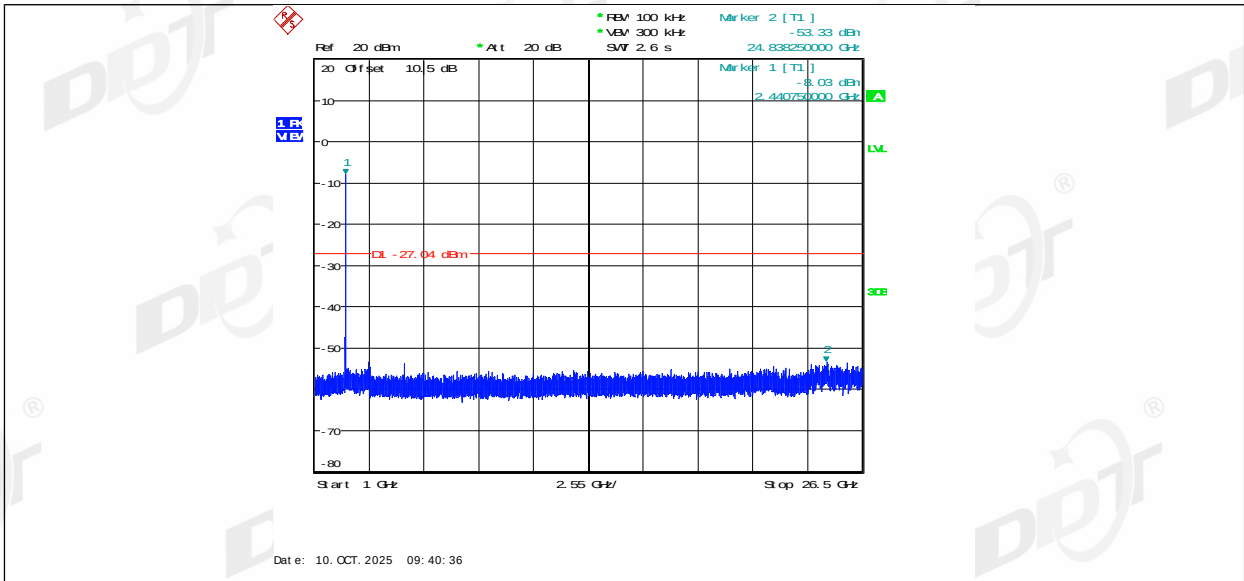
DH5_Ant1_2441_0~Reference

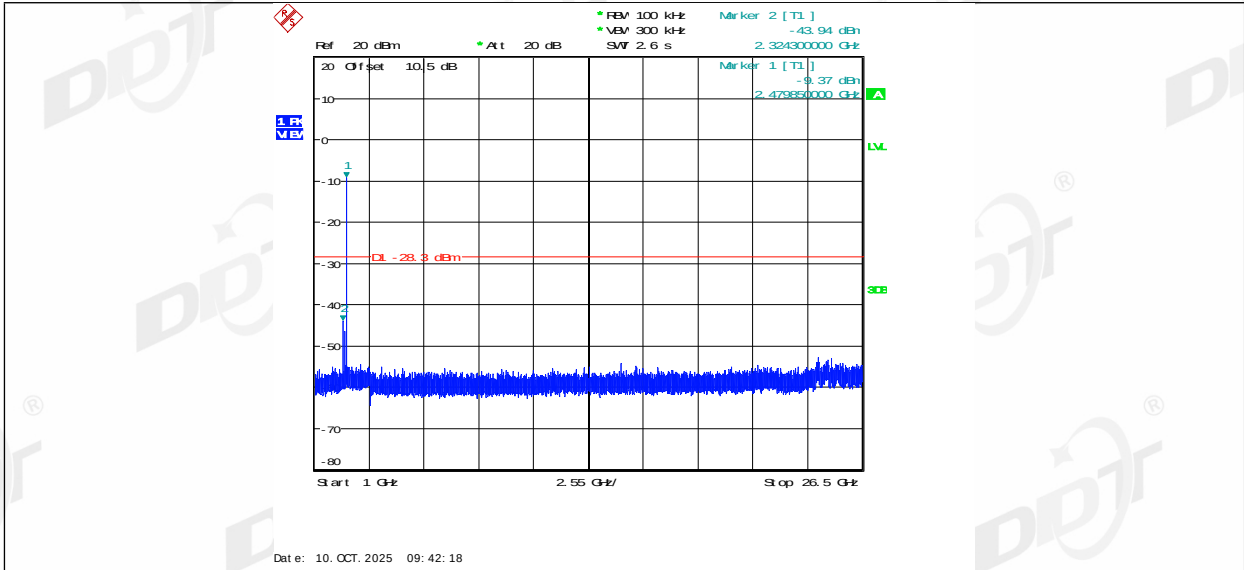


DH5_Ant1_2441_30~1000

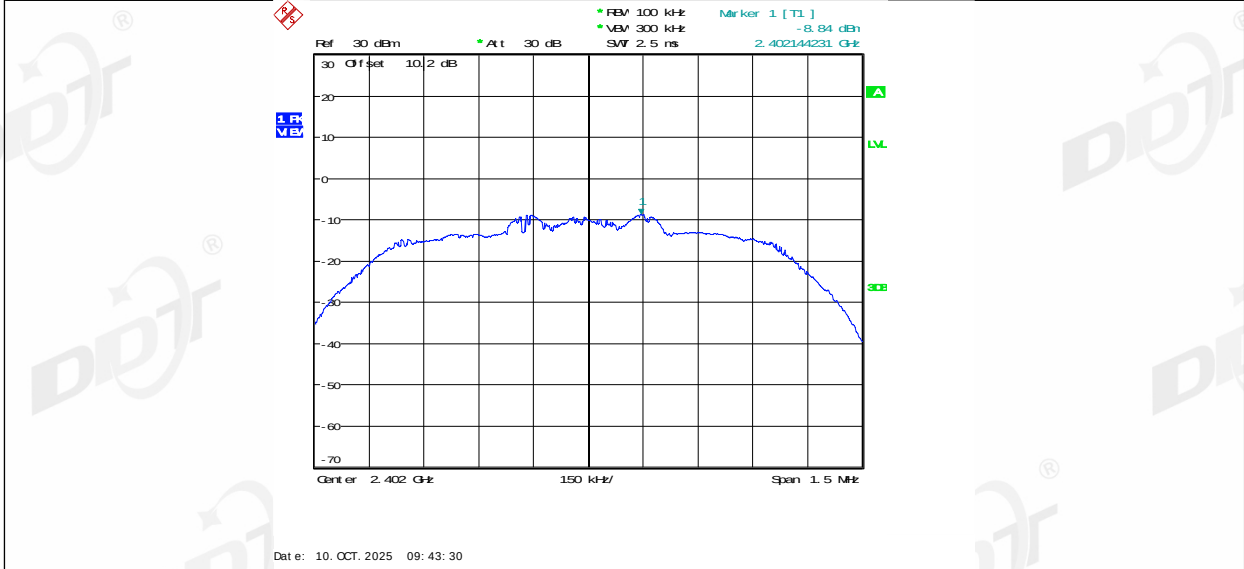


DH5_Ant1_2441_1000~26500

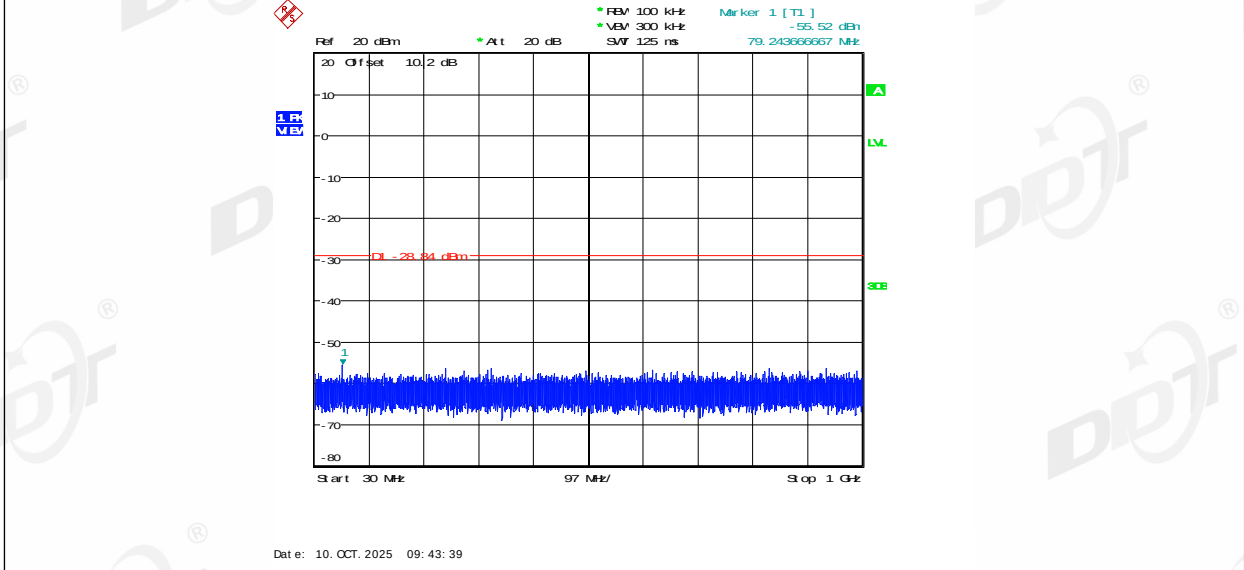




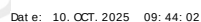
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



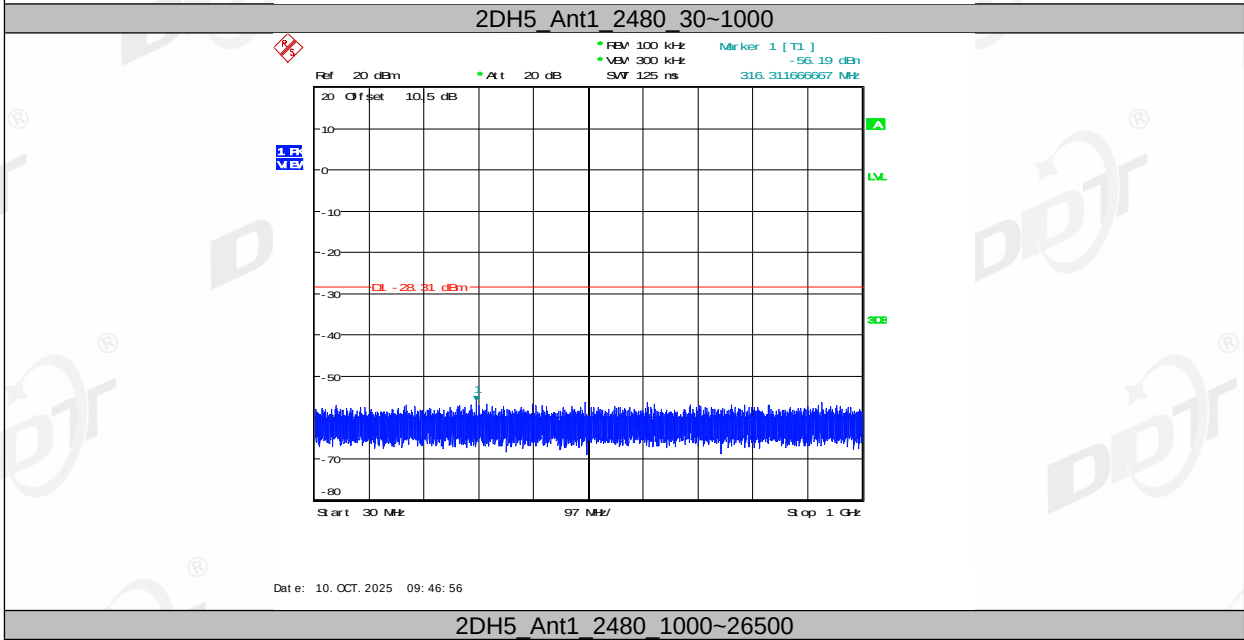
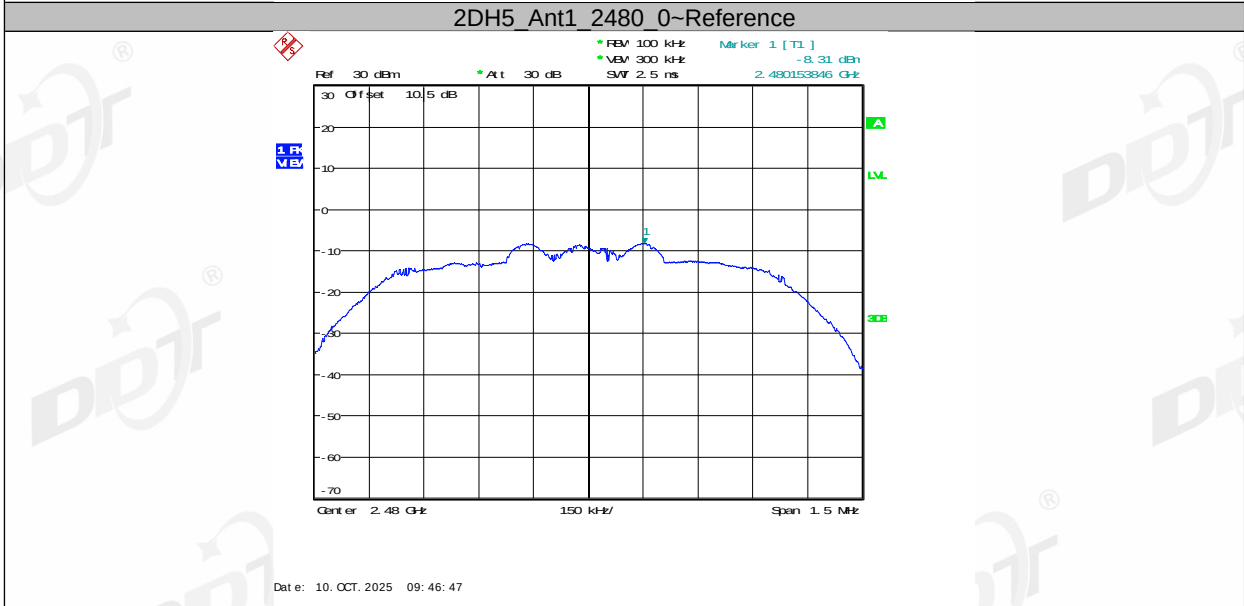
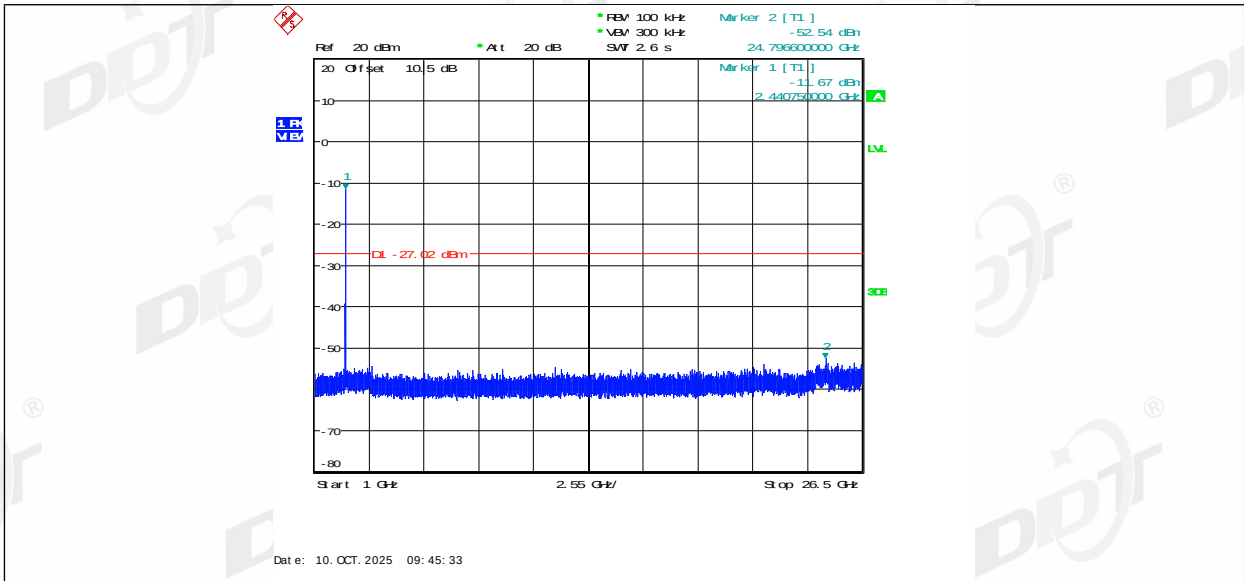
2DH5_Ant1_2402_1000~26500

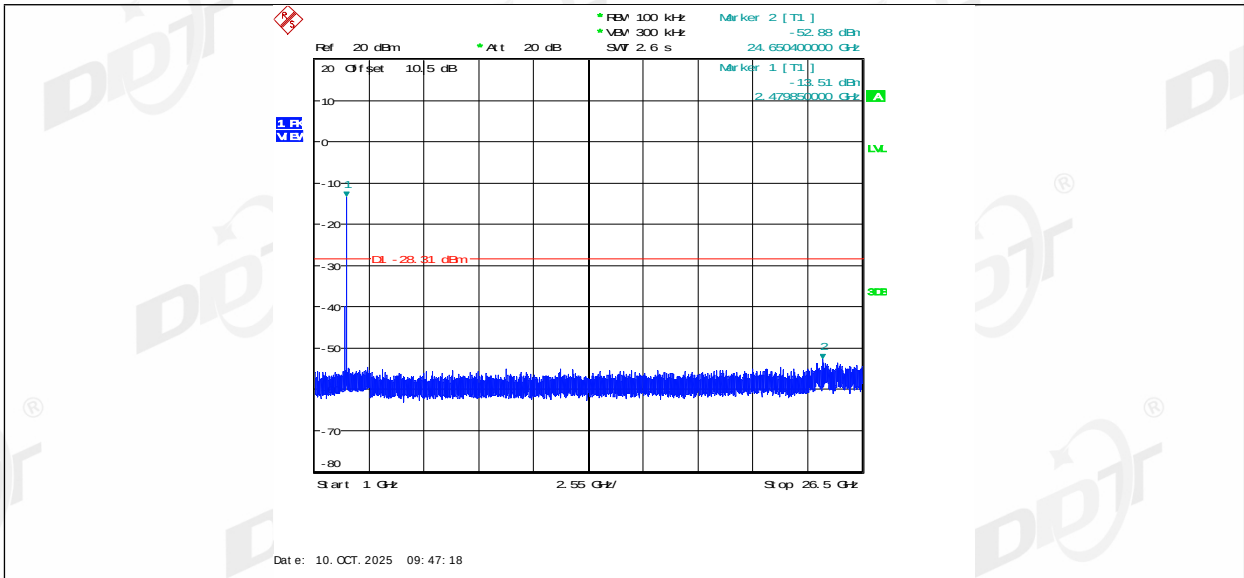


Date: 10. OCT. 2025 09:45:01

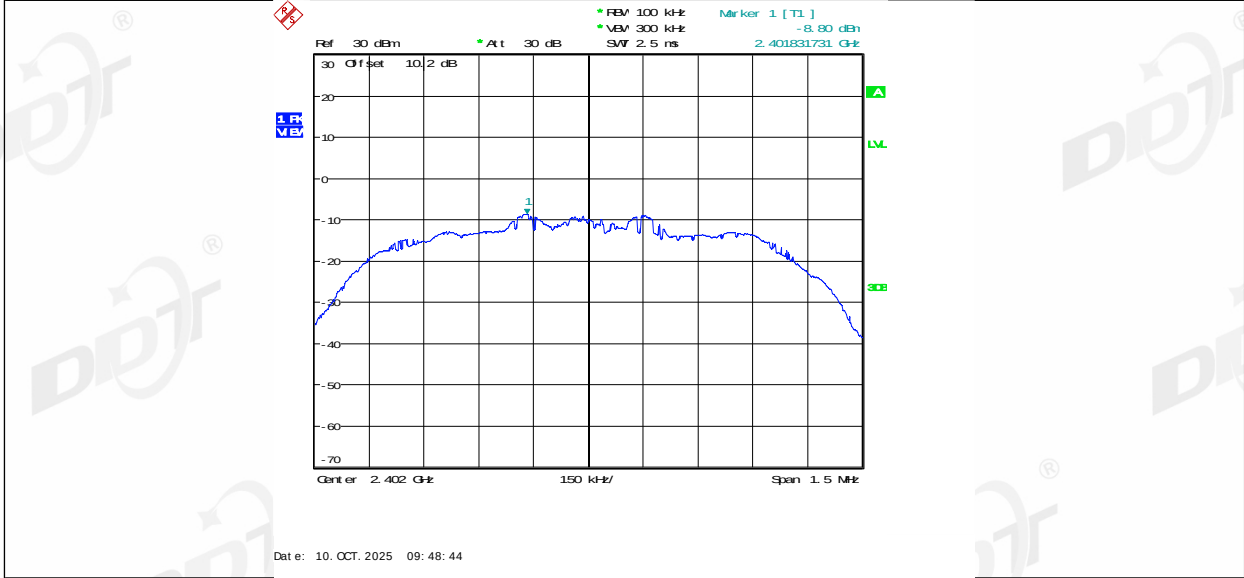
Date: 10. OCT. 2025 09:45:10

2DH5 Ant1 2441 1000~26500

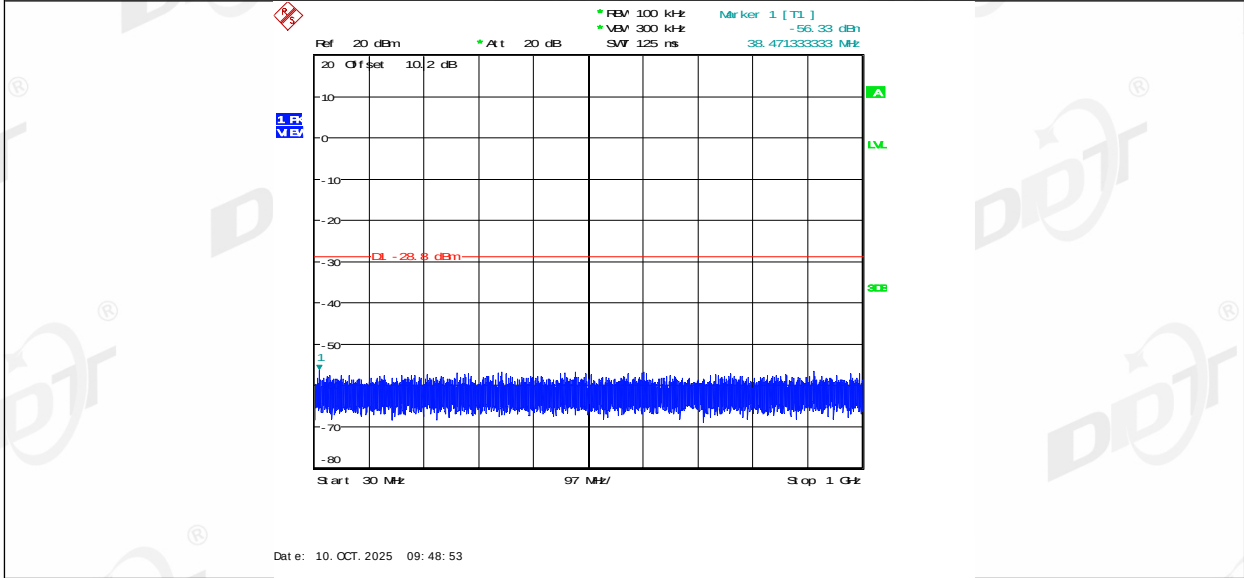




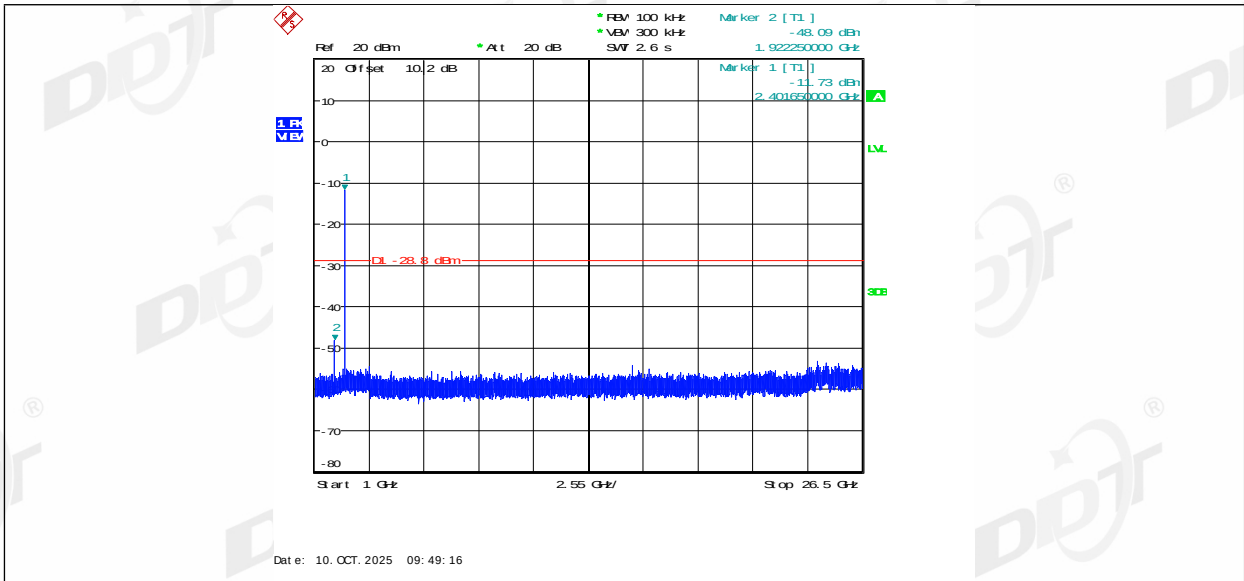
3DH5_Ant1_2402_0~Reference



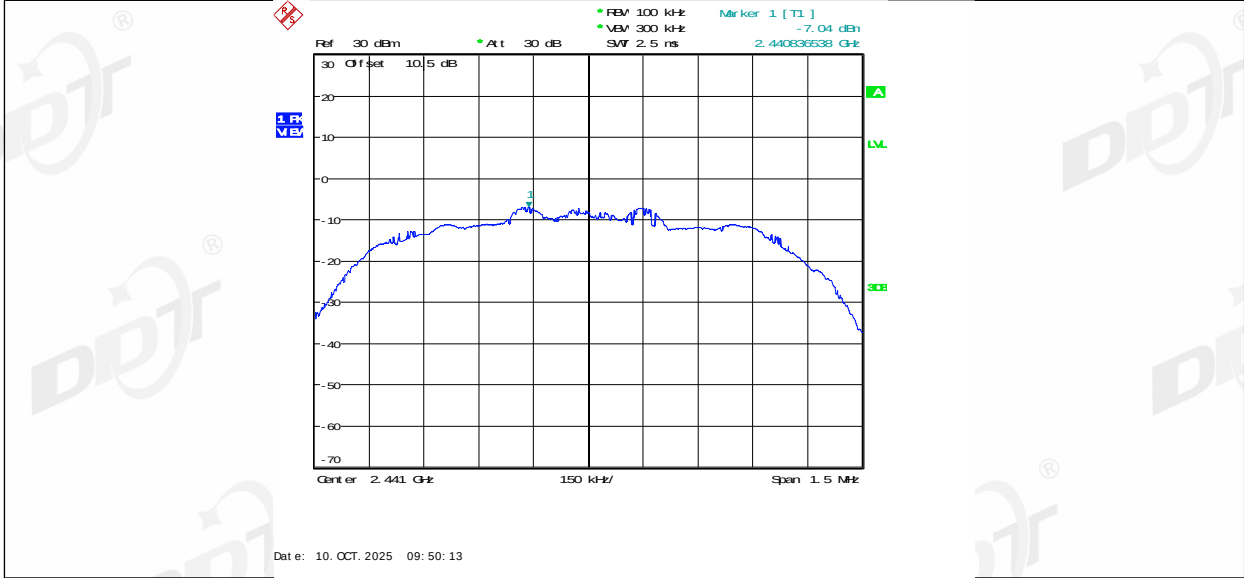
3DH5_Ant1_2402_30~1000



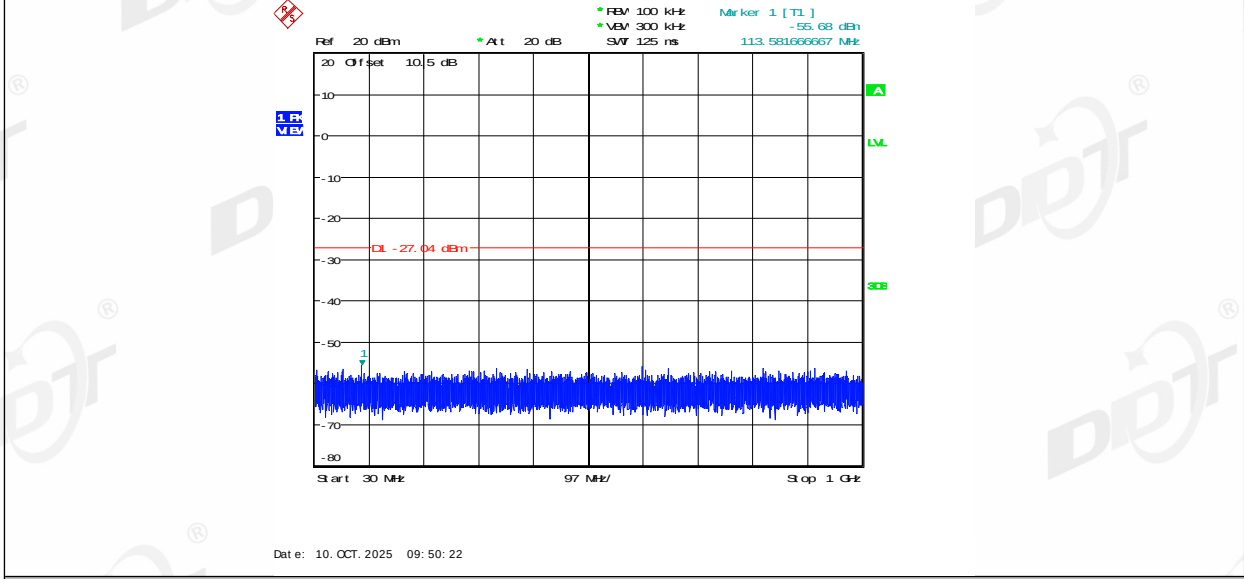
3DH5_Ant1_2402_1000~26500



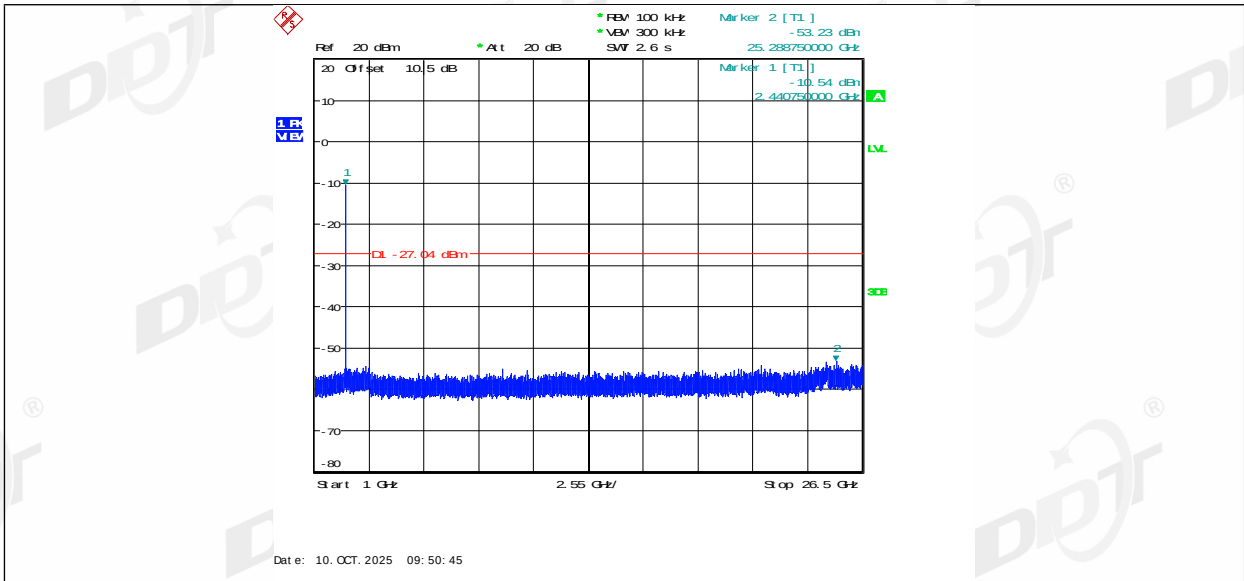
3DH5_Ant1_2441_0~Reference



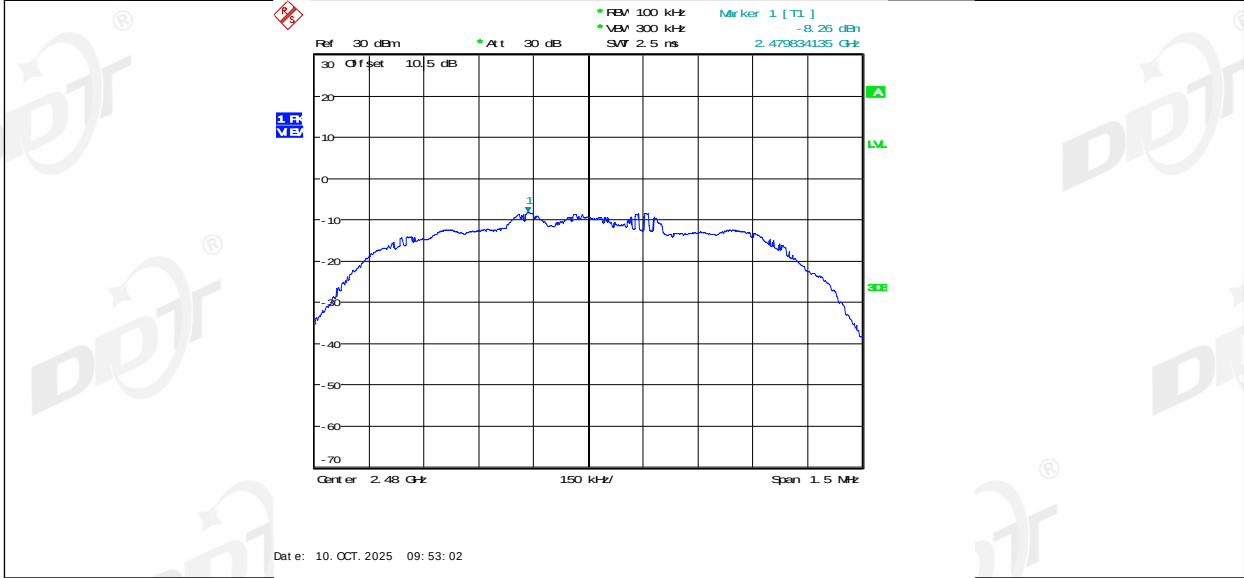
3DH5_Ant1_2441_30~1000



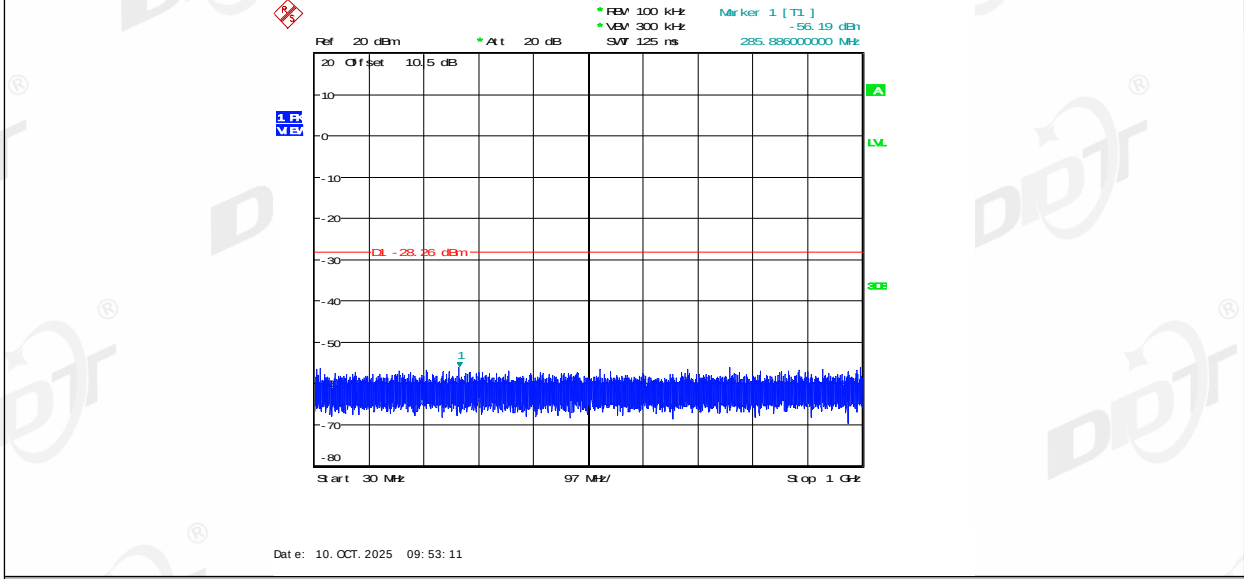
3DH5_Ant1_2441_1000~26500



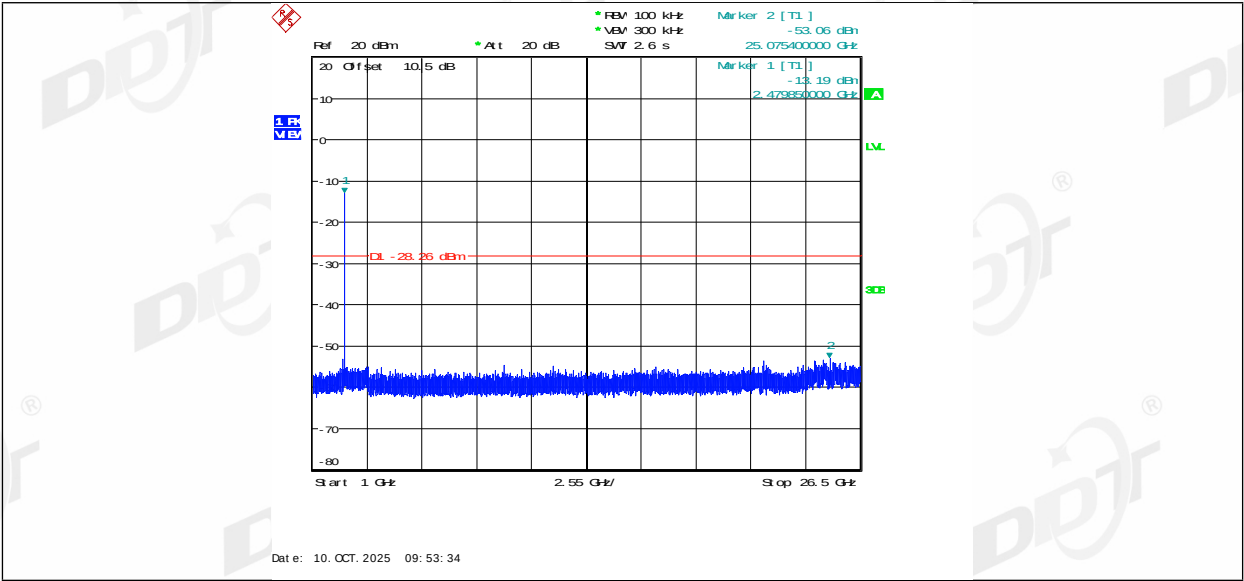
3DH5 Ant1 2480 0~Reference



3DH5 Ant1 2480 30~1000

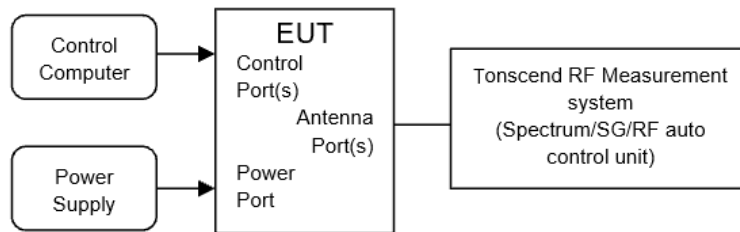


3DH5 Ant1 2480 1000~26500



12. Duty cycle

12.1. Block diagram of test setup



12.2. Limit

Just for Report.

12.3. Test procedure

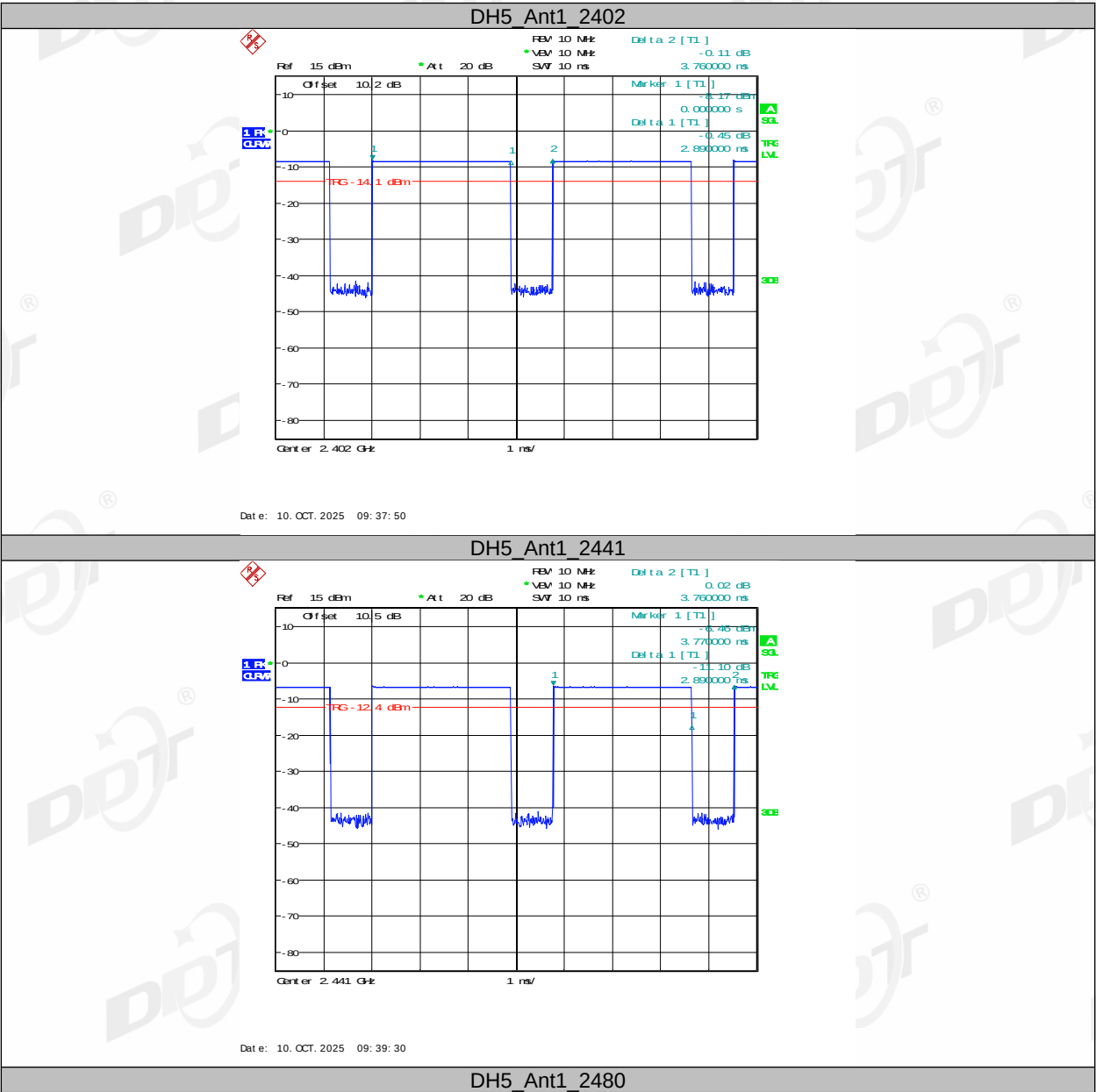
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the middle hopping channel.
Resolution BW: 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:
$$\text{Duty cycle} = \text{Pulse's on time} / \text{Burst cycle}$$

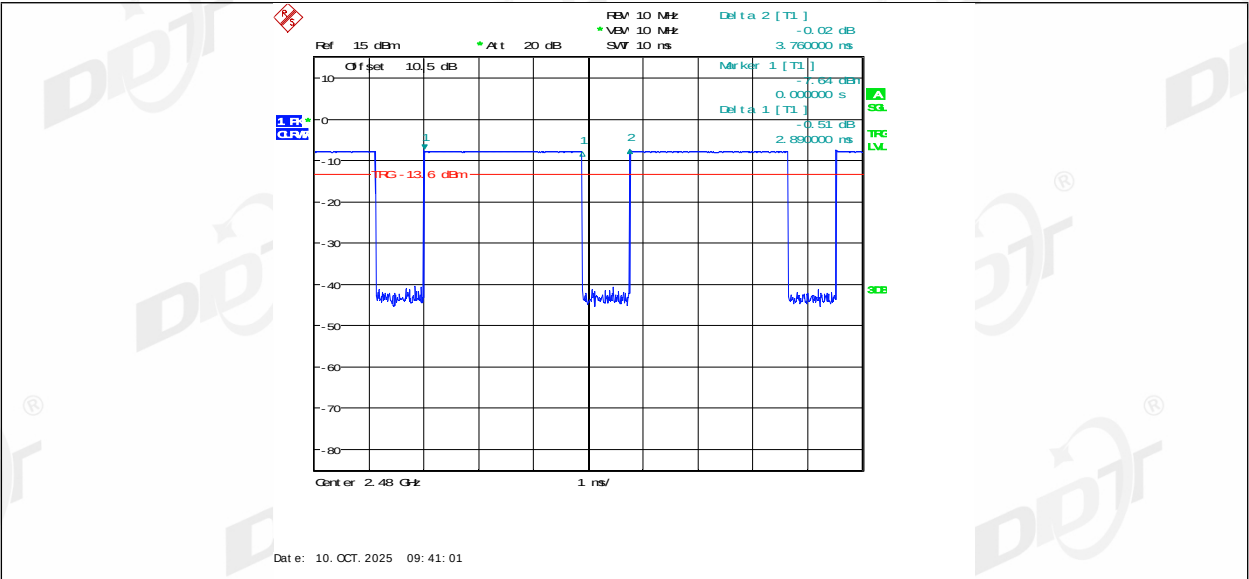
12.4. Test result

Test Engineer:	Wayne Huang	Test Site:	RF Measurement system 1#
Ambient Condition:	24.5℃,44.7%RH	Test Date:	2025.10.10
Test Power Supply:	Battery	Sample Number:	S25090308-006

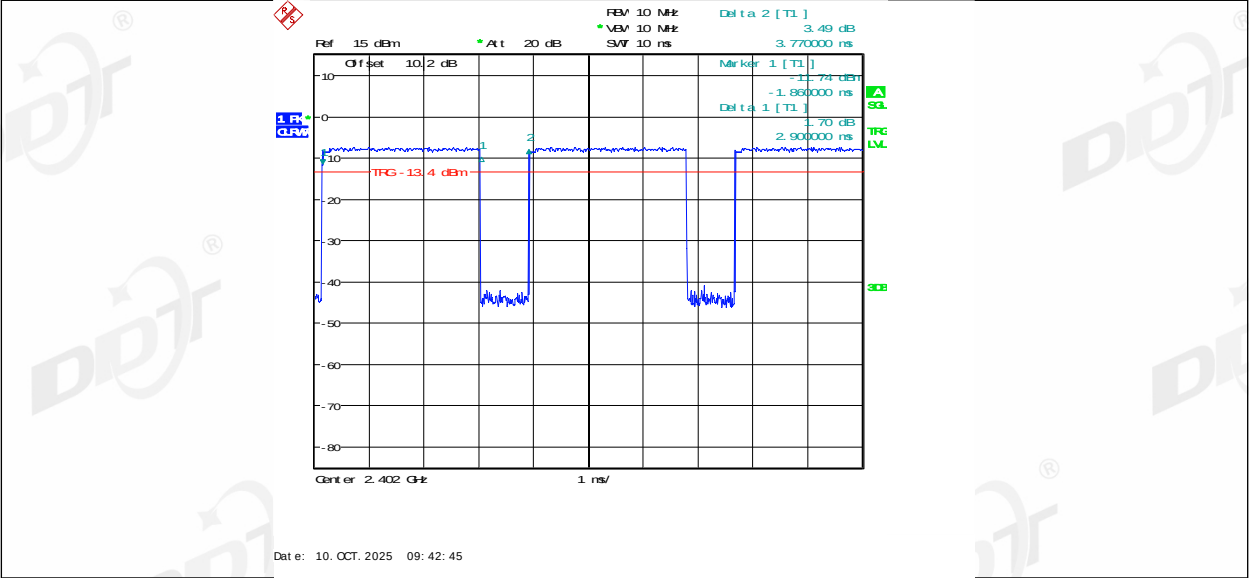
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.76	76.86	1.14
		2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14
2DH5	Ant1	2402	2.90	3.77	76.92	1.14
		2441	2.90	3.76	77.13	1.13
		2480	2.90	3.76	77.13	1.13
3DH5	Ant1	2402	2.90	3.76	77.13	1.13
		2441	2.90	3.76	77.13	1.13
		2480	2.90	3.76	77.13	1.13

12.5. Test graphs

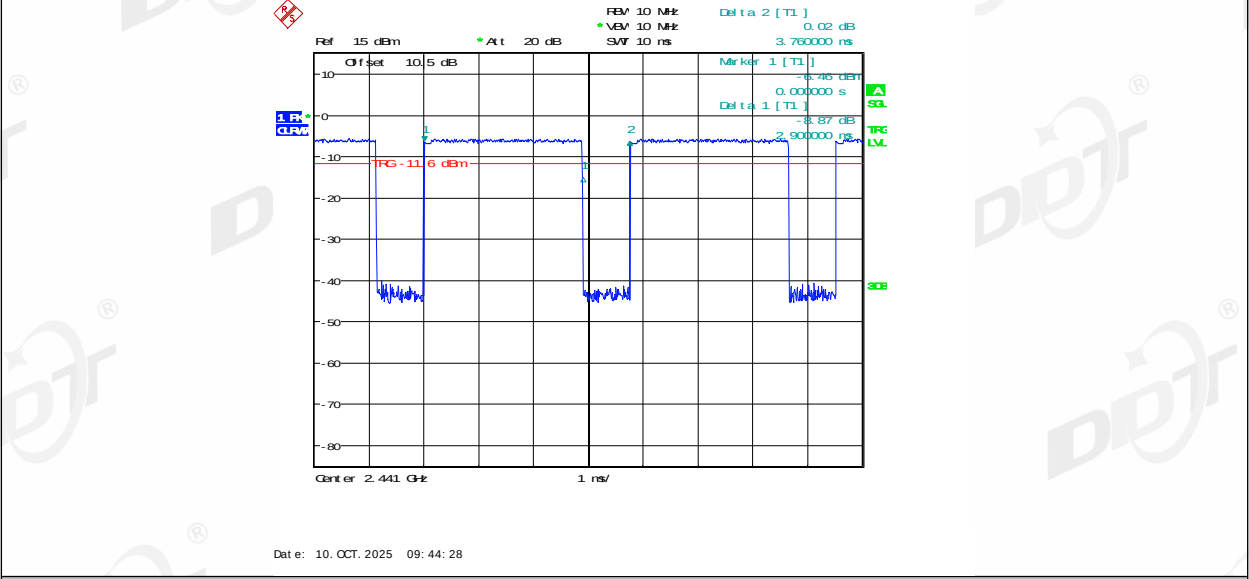




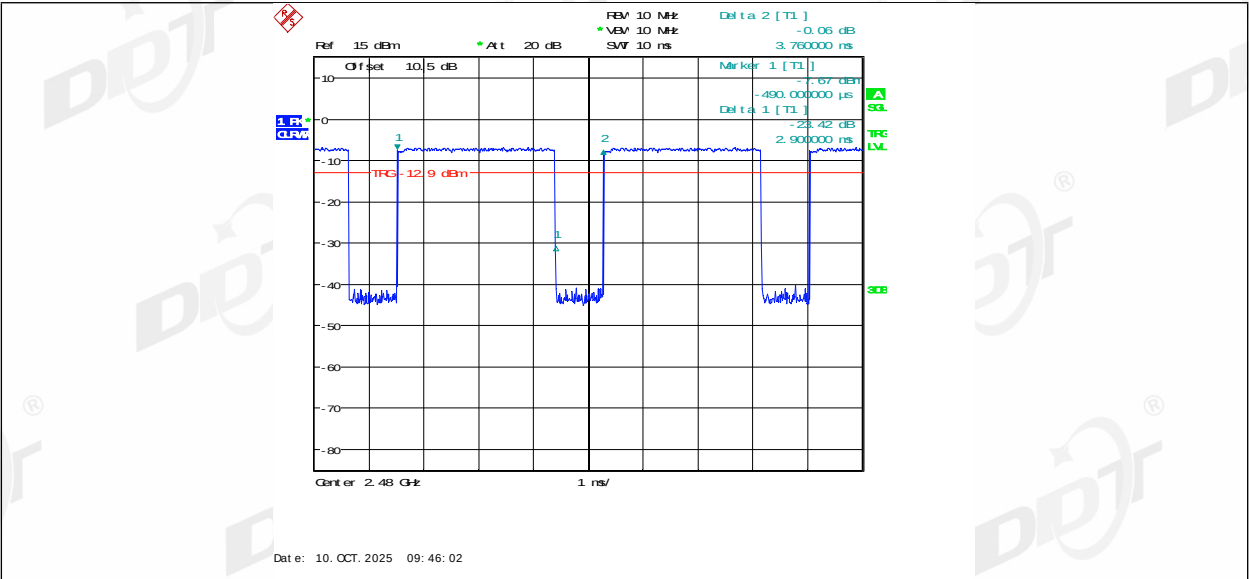
2DH5_Ant1_2402



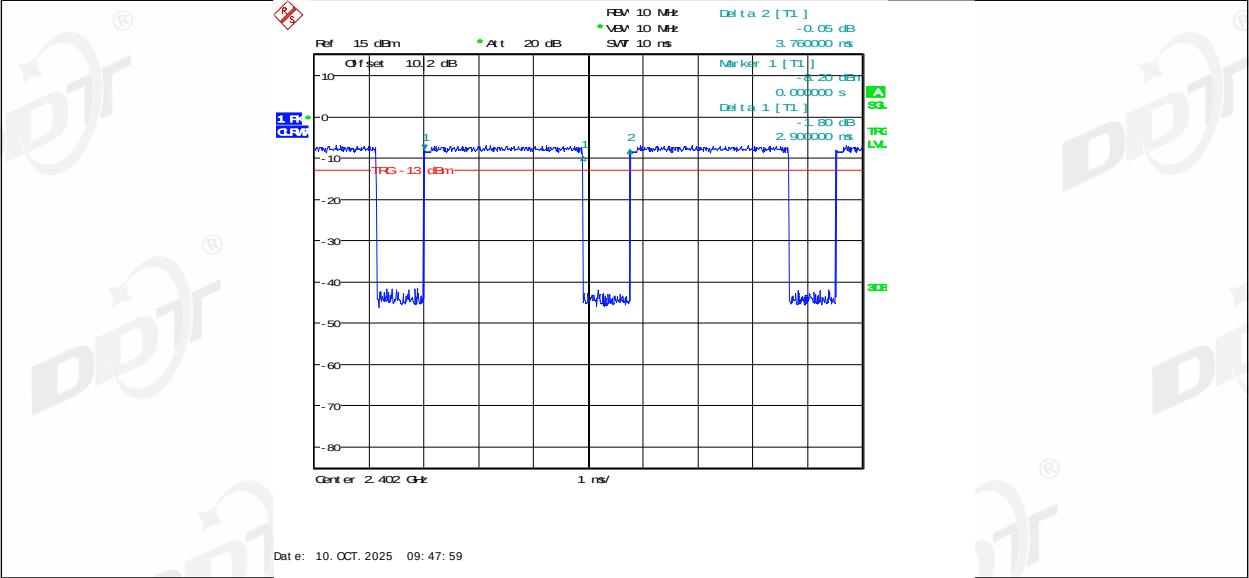
2DH5_Ant1_2441



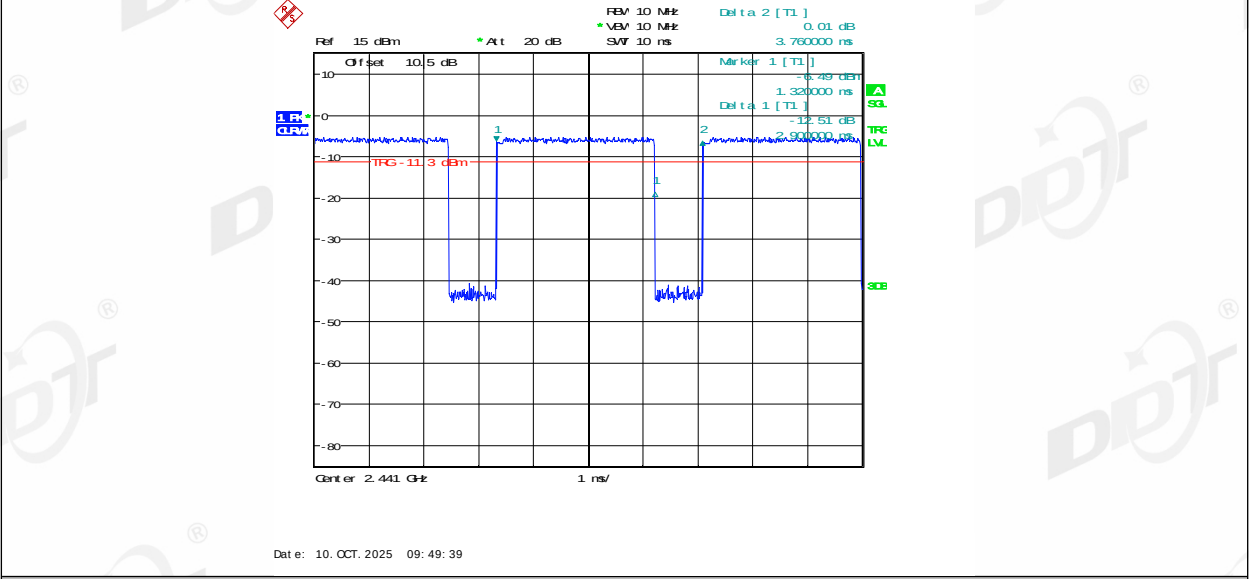
2DH5_Ant1_2480



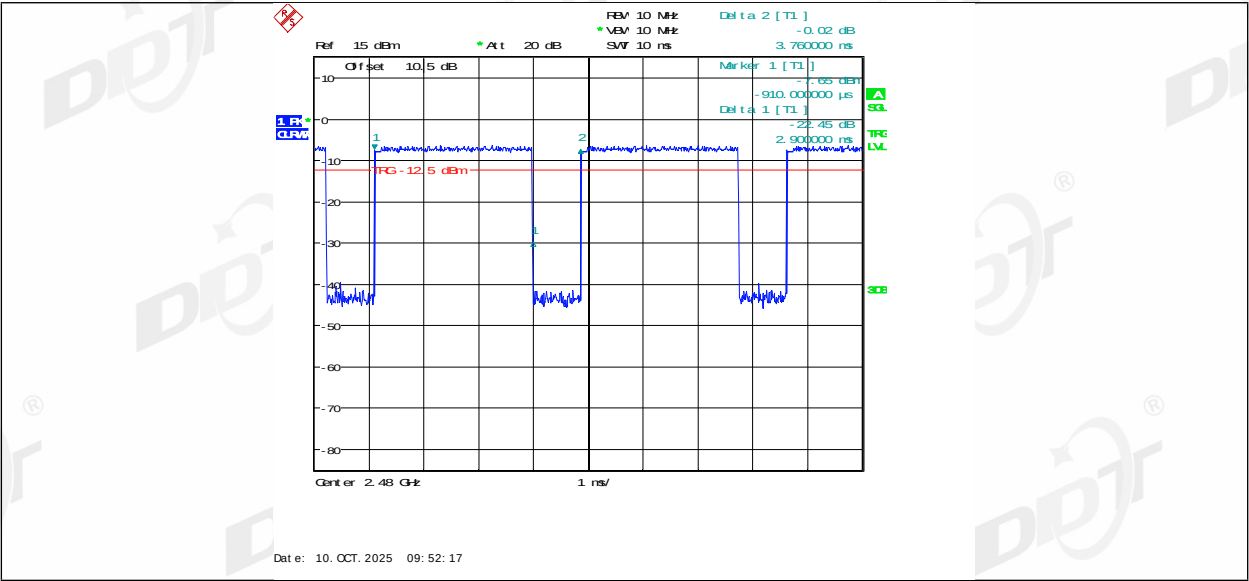
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



13. Antenna Requirements

13.1. 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.

13.2. Result

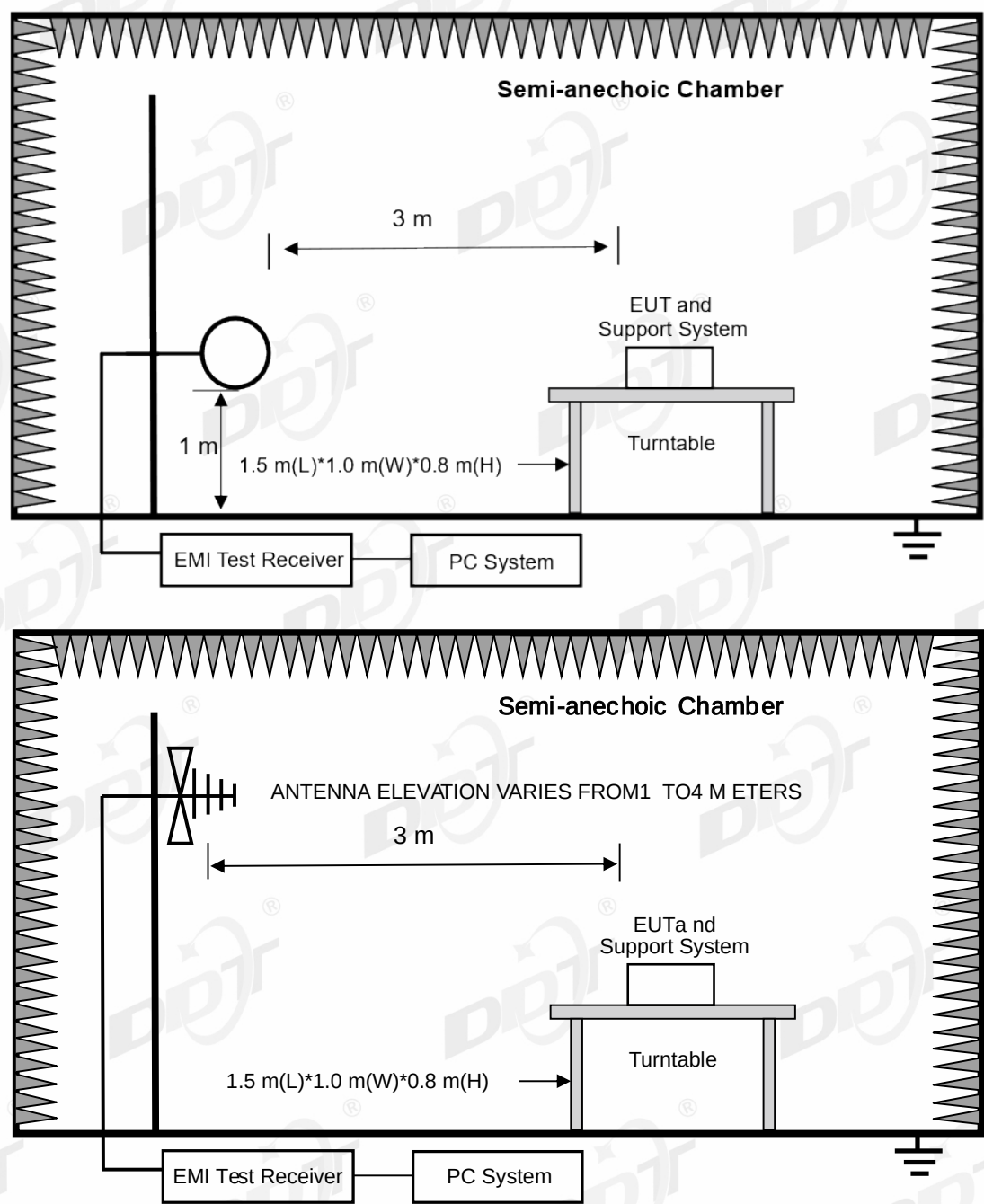
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

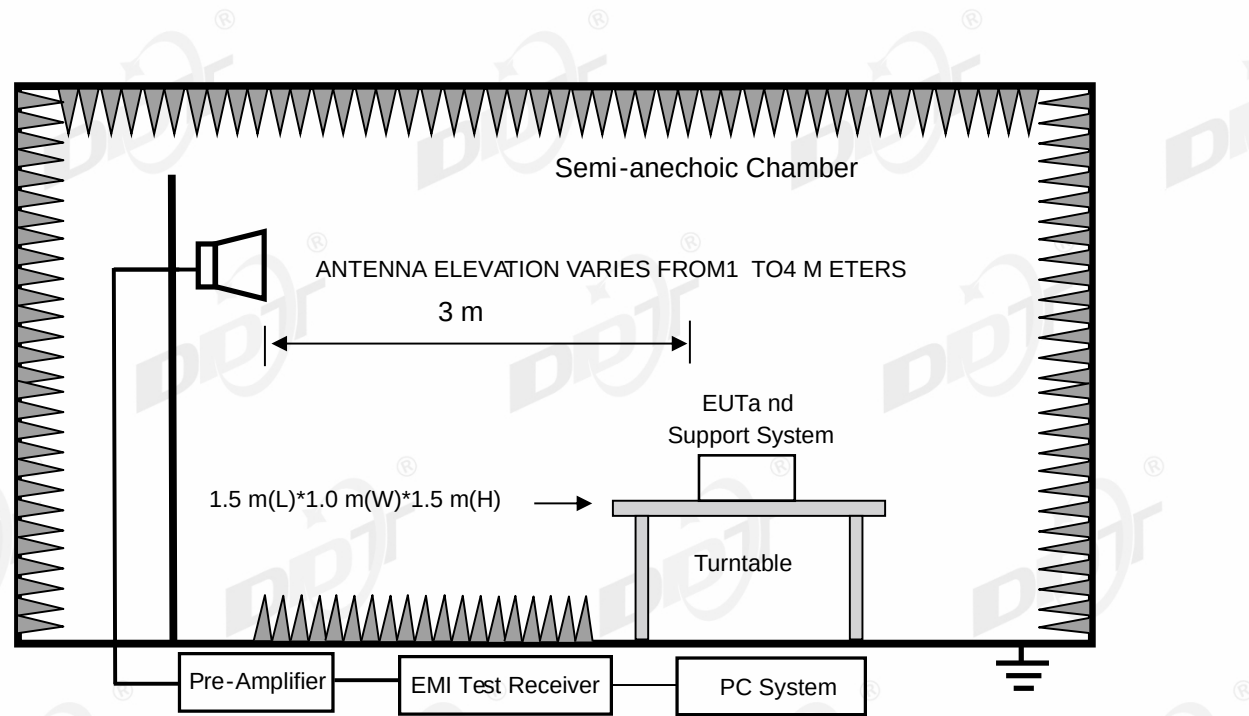
14. Radiated Emission

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2026/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2026/08/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

14.2. Block diagram of test setup





14.3. 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
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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

²Above 38.6

(2) FCC 15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		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:

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

(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.

14.4. Assistant equipment used for test

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

14.5. 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 30 MHz, 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) For 30 MHz ~ 25 GHz: (Scan with GFSK, $\pi/4$ -DQPSK and 8DPSK, the worst case is record and reported)
- (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 EUT working in worst mode.

14.6. Test result

PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

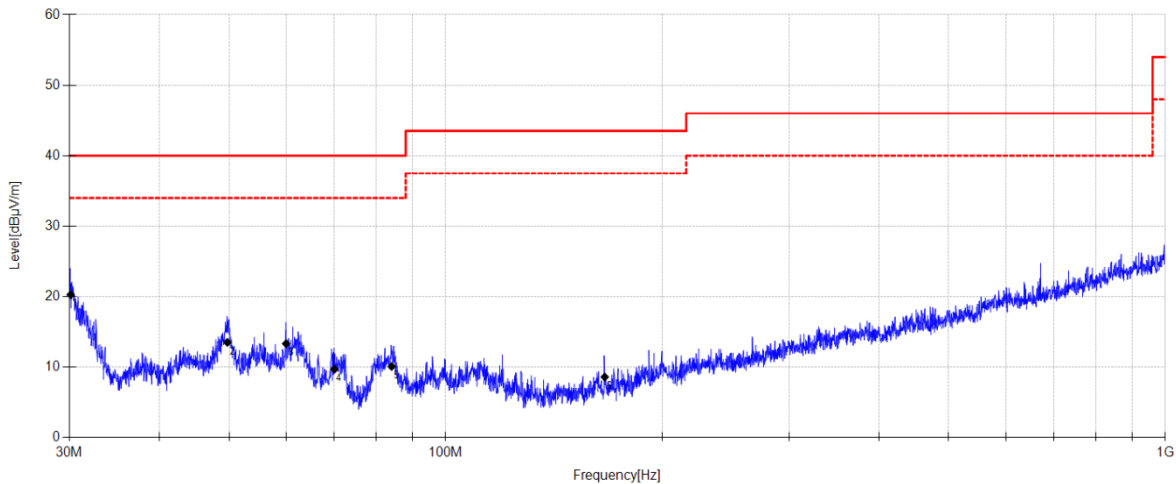
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC BELOW 1G\1

Memo:

Sample Numbre:S25090308-006



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	30.126	38.39	10.47	3.72	20.28	40.00	19.72	QP	Horizontal
2	49.737	28.48	13.45	3.88	13.51	40.00	26.49	QP	Horizontal
3	60.019	29.28	12.40	3.95	13.33	40.00	26.67	QP	Horizontal
4	70.029	28.27	9.70	4.01	9.68	40.00	30.32	QP	Horizontal
5	84.152	29.33	8.98	4.08	10.09	40.00	29.91	QP	Horizontal
6	166.361	27.7	8.89	4.38	8.60	43.50	34.90	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:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

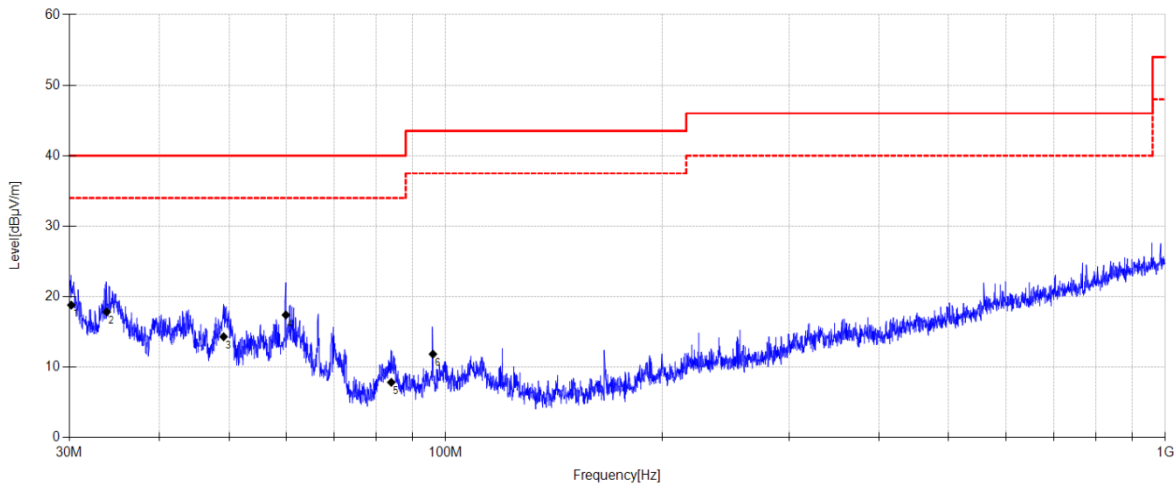
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC BELOW 1G\2

Memo:

Sample Numbler:S25090308-006



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	30.190	36.92	10.46	3.72	18.80	40.00	21.20	QP	Vertical
2	33.822	35.16	11.23	3.75	17.84	40.00	22.16	QP	Vertical
3	49.147	29.17	13.57	3.87	14.31	40.00	25.69	QP	Vertical
4	59.977	33.35	12.40	3.95	17.40	40.00	22.60	QP	Vertical
5	84.034	27.14	8.92	4.08	7.84	40.00	32.16	QP	Vertical
6	96.009	28.79	11.19	4.16	11.84	43.50	31.66	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:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2402 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

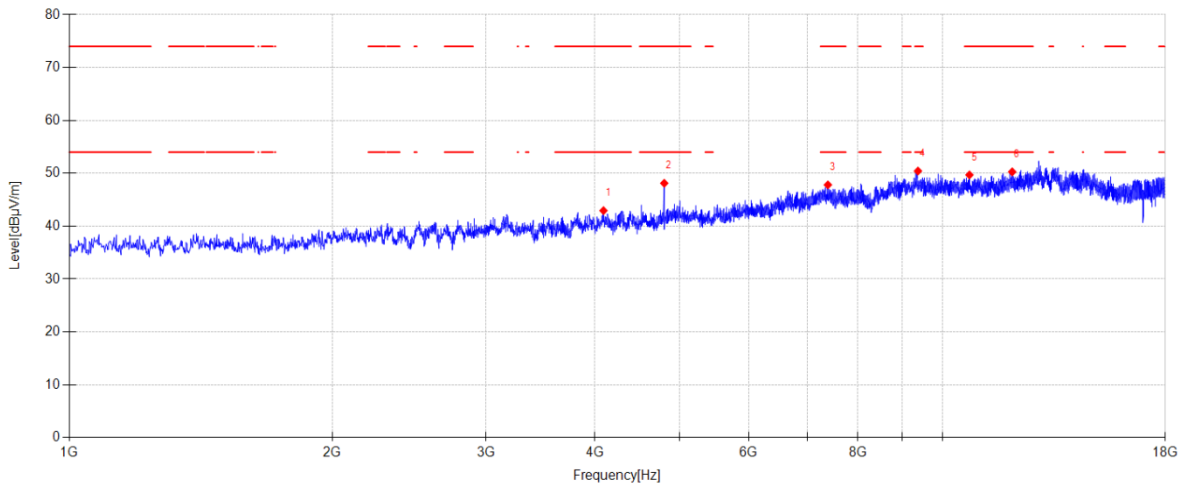
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT15

Memo:

Sample Numbler:S25090308-006



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4090.600	47.43	31.12	4.09	-39.71	42.93	74.00	31.07	PK	Horizontal
2	4801.200	51.34	32.12	4.44	-39.78	48.12	74.00	25.88	PK	Horizontal
3	7392.000	45.52	36.75	5.40	-39.86	47.81	74.00	26.19	PK	Horizontal
4	9374.200	44.23	38.75	6.46	-39.01	50.43	74.00	23.57	PK	Horizontal
5	10737.600	43.53	39.31	6.48	-39.63	49.69	74.00	24.31	PK	Horizontal
6	12019.400	43.69	39.10	7.06	-39.58	50.27	74.00	23.73	PK	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2402 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

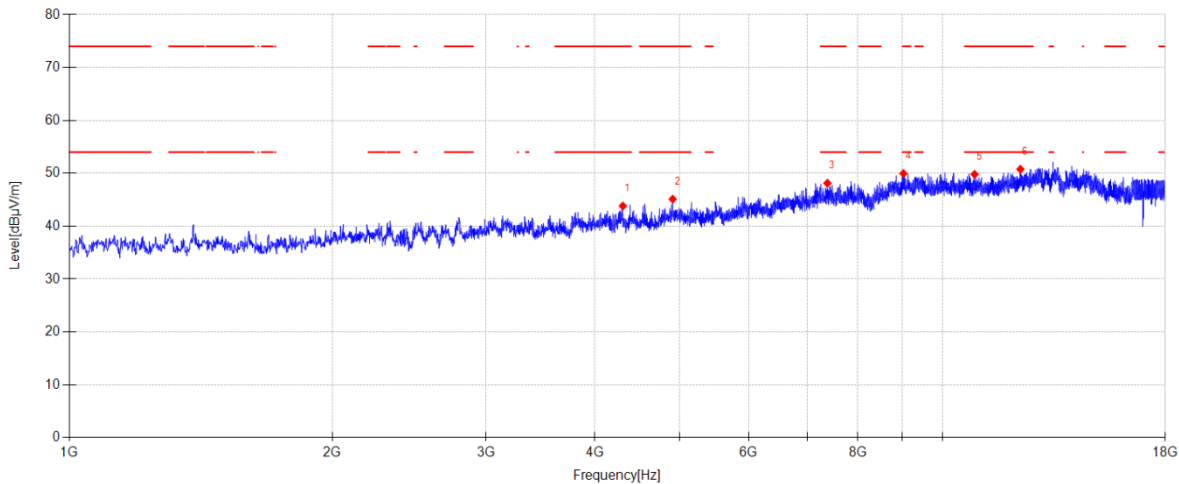
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT16

Memo:

Sample Numbler:S25090308-006



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4304.800	47.43	31.93	4.19	-39.73	43.82	74.00	30.18	PK	Vertical
2	4910.000	47.30	33.10	4.50	-39.79	45.11	74.00	28.89	PK	Vertical
3	7381.800	45.79	36.81	5.39	-39.86	48.13	74.00	25.87	PK	Vertical
4	9022.300	43.53	38.68	6.38	-38.62	49.97	74.00	24.03	PK	Vertical
5	10883.800	43.47	39.50	6.45	-39.61	49.81	74.00	24.19	PK	Vertical
6	12281.200	43.84	39.36	6.95	-39.38	50.77	74.00	23.23	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2441 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

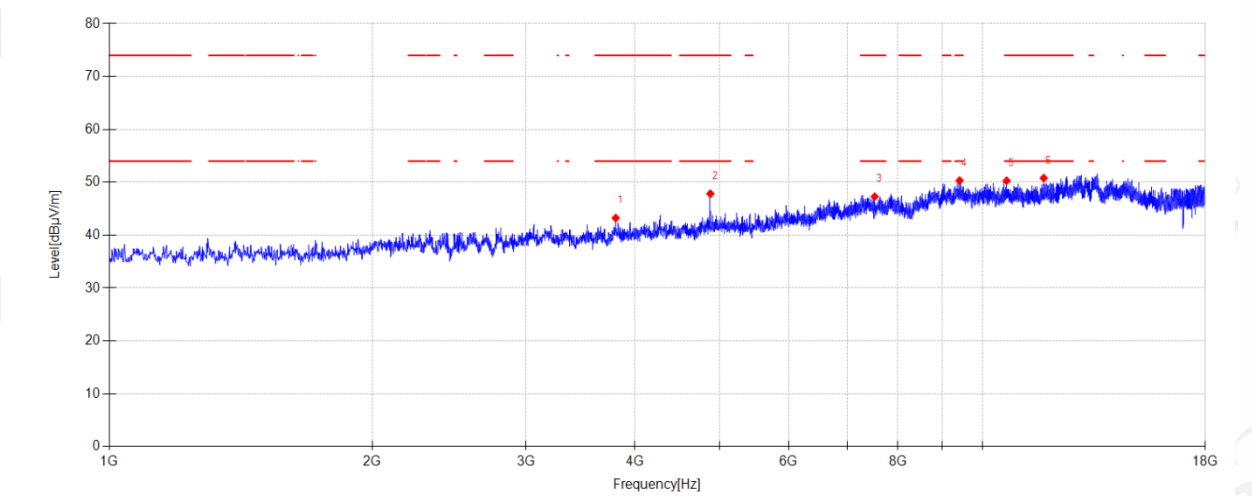
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BTv7

Memo:

Sample Numbre:S25090308-006



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3801.600	47.90	30.88	4.08	-39.62	43.24	74.00	30.76	PK	Horizontal
2	4879.400	50.13	33.02	4.48	-39.79	47.84	74.00	26.16	PK	Horizontal
3	7526.300	45.18	36.53	5.43	-39.85	47.29	74.00	26.71	PK	Horizontal
4	9415.000	44.37	38.55	6.47	-39.06	50.33	74.00	23.67	PK	Horizontal
5	10659.400	44.06	39.38	6.49	-39.63	50.30	74.00	23.70	PK	Horizontal
6	11755.900	44.93	38.56	6.91	-39.60	50.80	74.00	23.20	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2441 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

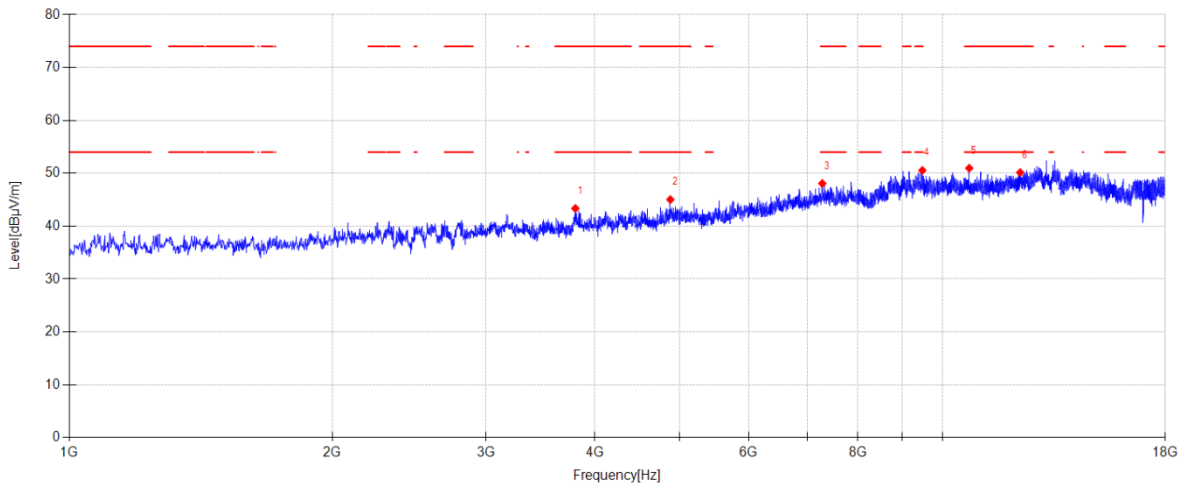
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT18

Memo:

Sample Numbler:S25090308-006



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3798.200	48.03	30.86	4.08	-39.62	43.35	74.00	30.65	PK	Vertical
2	4879.400	47.32	33.02	4.48	-39.79	45.03	74.00	28.97	PK	Vertical
3	7283.200	45.58	37.00	5.37	-39.87	48.08	74.00	25.92	PK	Vertical
4	9483.000	44.52	38.66	6.49	-39.13	50.54	74.00	23.46	PK	Vertical
5	10730.800	44.77	39.35	6.48	-39.63	50.97	74.00	23.03	PK	Vertical
6	12276.100	43.22	39.35	6.95	-39.38	50.14	74.00	23.86	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

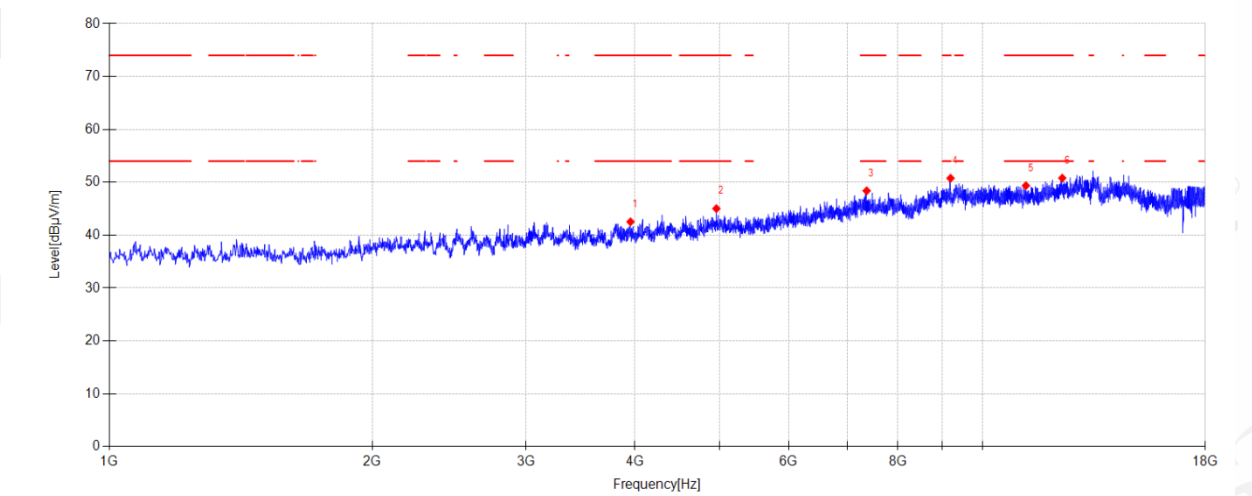
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\9

Memo:

Sample Numbel:S25090308-006



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3952.900	47.83	30.33	4.05	-39.68	42.53	74.00	31.47	PK	Horizontal
2	4957.600	47.22	33.08	4.52	-39.80	45.02	74.00	28.98	PK	Horizontal
3	7368.200	45.97	36.89	5.39	-39.86	48.39	74.00	25.61	PK	Horizontal
4	9194.000	44.69	38.47	6.42	-38.81	50.77	74.00	23.23	PK	Horizontal
5	11215.300	43.63	38.77	6.57	-39.60	49.37	74.00	24.63	PK	Horizontal
6	12342.400	43.94	39.27	6.92	-39.33	50.80	74.00	23.20	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

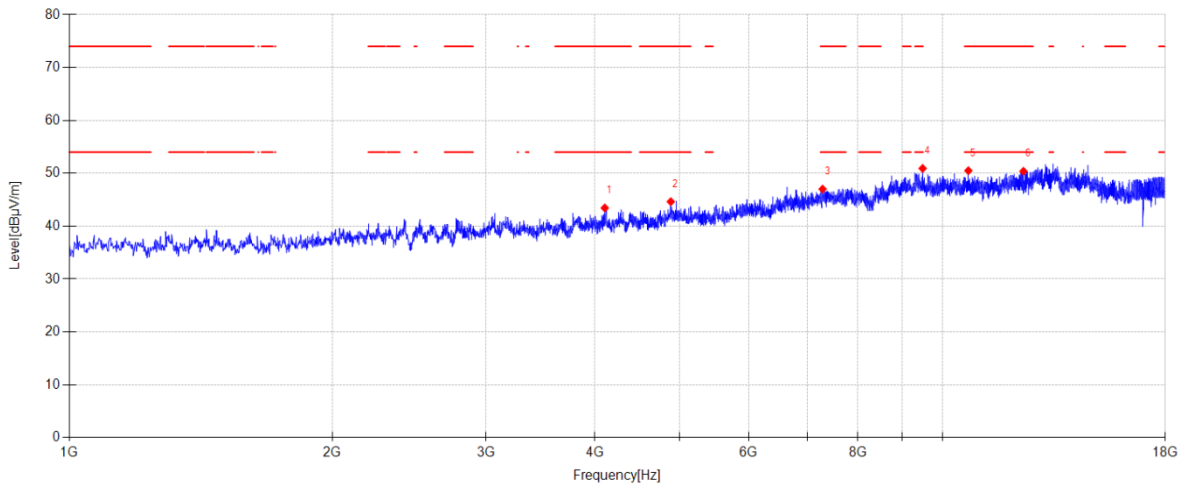
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\10

Memo:

Sample Numbler:S25090308-006



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4104.200	47.93	31.13	4.09	-39.71	43.44	74.00	30.56	PK	Vertical
2	4884.500	46.90	33.04	4.48	-39.79	44.63	74.00	29.37	PK	Vertical
3	7290.000	44.51	37.00	5.37	-39.87	47.01	74.00	26.99	PK	Vertical
4	9491.500	44.79	38.78	6.49	-39.14	50.92	74.00	23.08	PK	Vertical
5	10707.000	44.17	39.47	6.48	-39.63	50.49	74.00	23.51	PK	Vertical
6	12381.500	43.61	39.16	6.90	-39.29	50.38	74.00	23.62	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

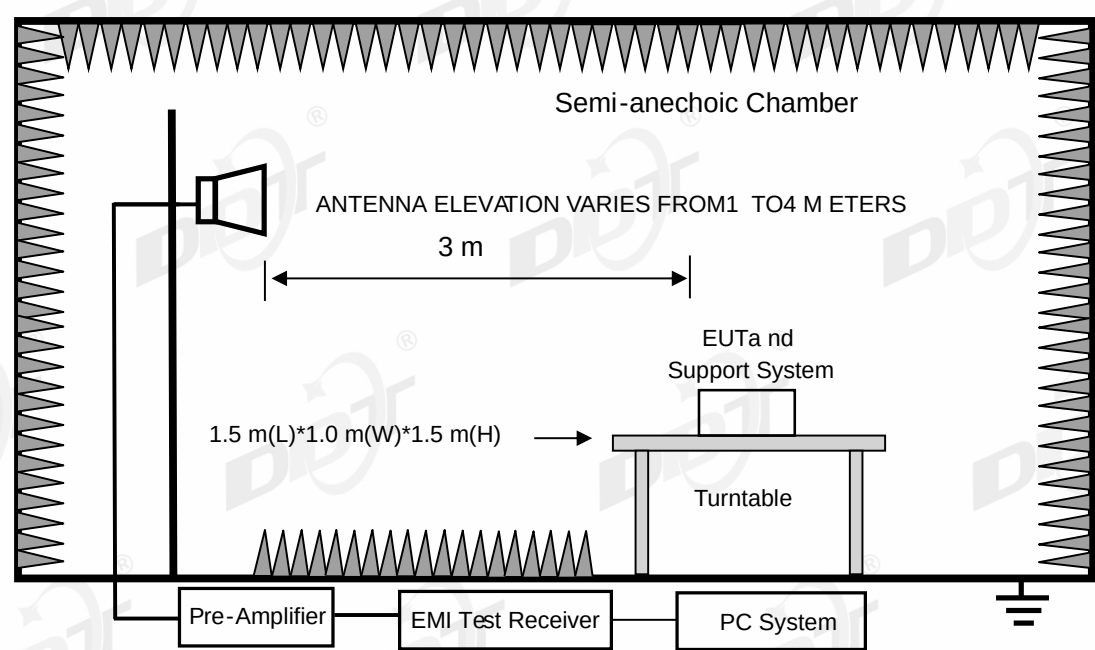
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

15. Band Edge Compliance

15.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2026/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2026/08/11
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

15.2. Block diagram of test setup



15.3. Limits

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

15.4. Assistant equipment used for test

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

15.5. 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.

15.6. Test result

PASS. (See below detailed test result)

15.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2402 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

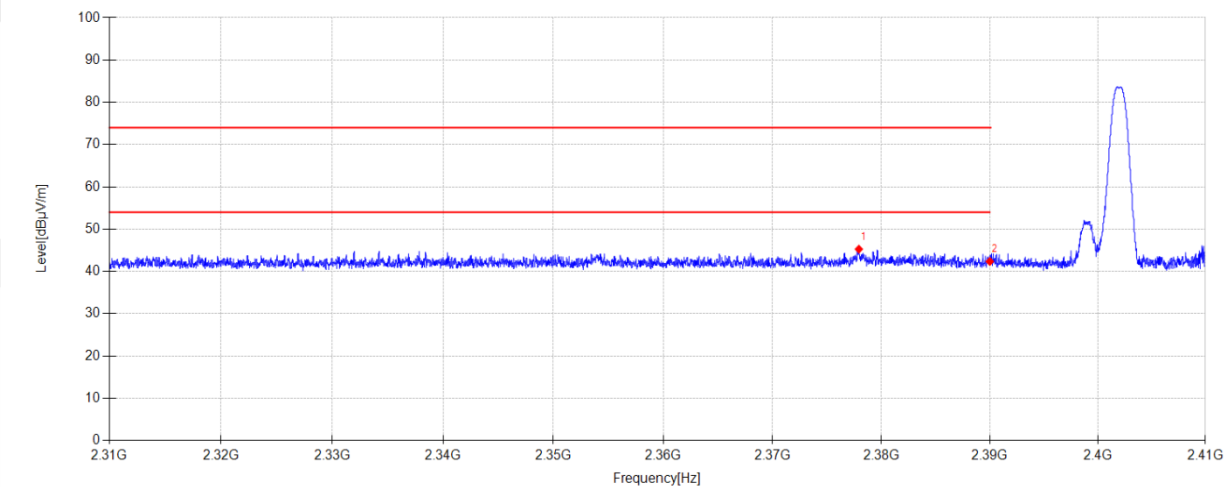
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\11

Memo:

Sample Numbre:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2377.930	13.31	27.53	4.43	0.00	45.27	74.00	28.73	PK	Horizontal
2	2390.000	10.46	27.46	4.43	0.00	42.35	74.00	31.65	PK	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2402 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

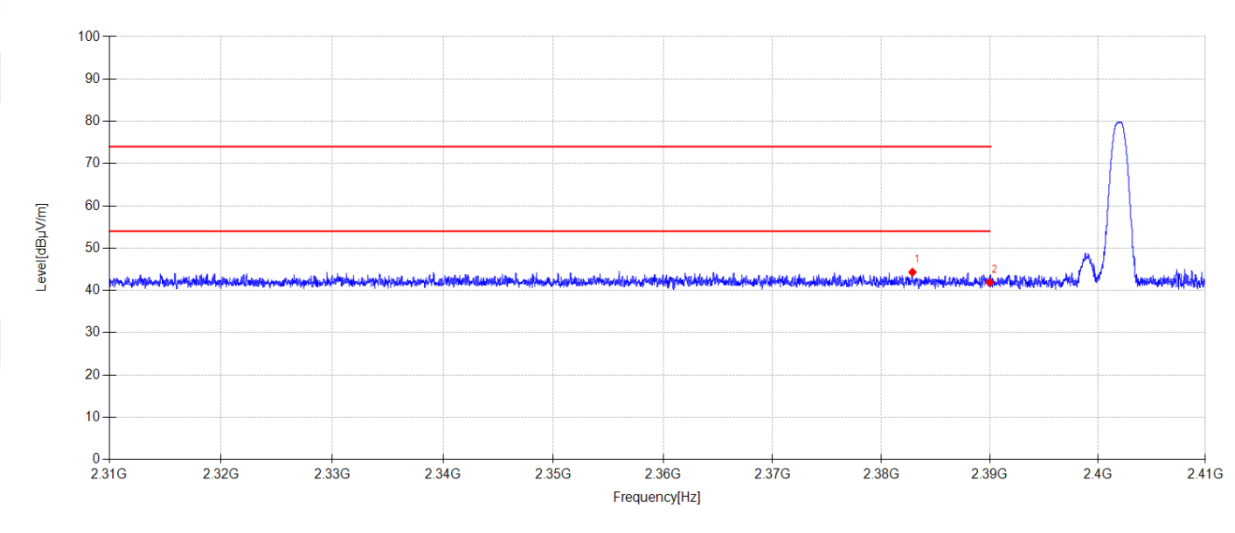
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\12

Memo:

Sample Numbler:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2382.860	12.39	27.50	4.43	0.00	44.32	74.00	29.68	PK	Vertical
2	2390.000	10.01	27.46	4.43	0.00	41.90	74.00	32.10	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

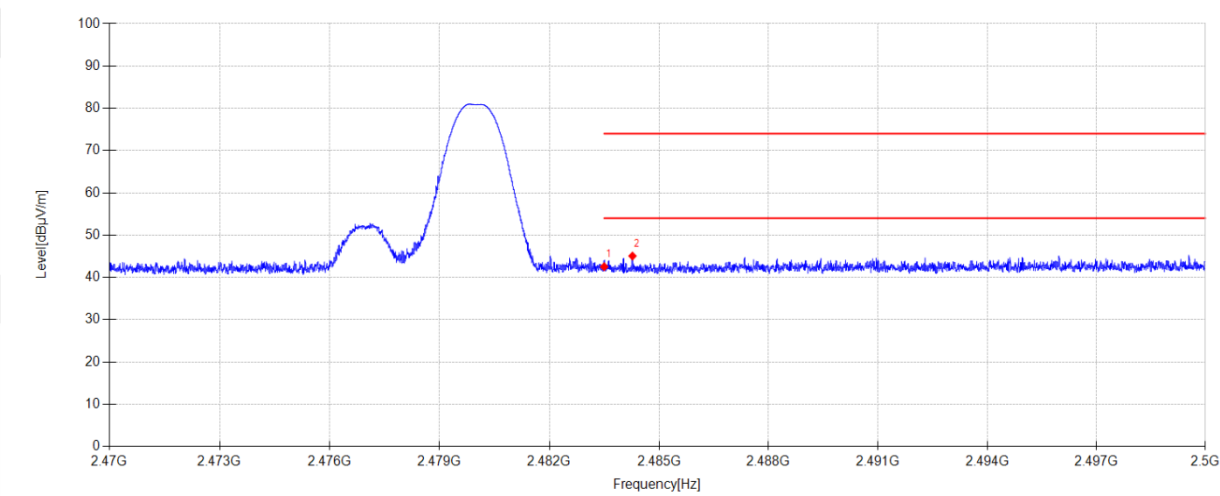
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\21

Memo:

Sample Numble:S25090308-006 Power Setting:10



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	10.59	27.54	4.40	0.00	42.53	74.00	31.47	PK	Horizontal
2	2484.274	13.13	27.54	4.40	0.00	45.07	74.00	28.93	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

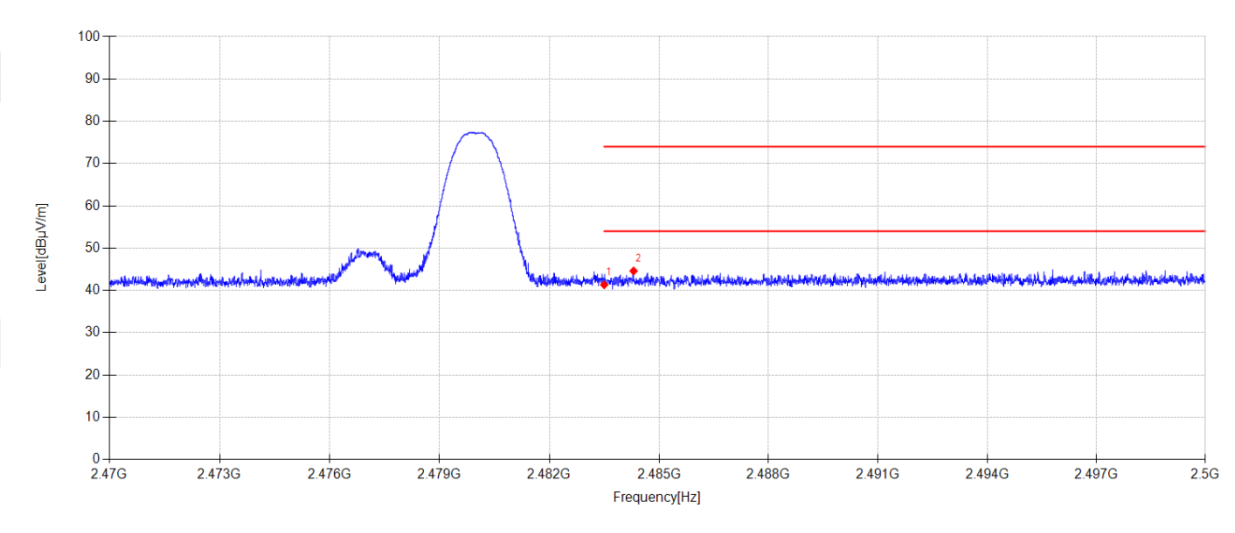
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\22

Memo:

Sample Numbler:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	9.39	27.54	4.40	0.00	41.33	74.00	32.67	PK	Vertical
2	2484.304	12.66	27.54	4.40	0.00	44.60	74.00	29.40	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

2DH5 2402 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

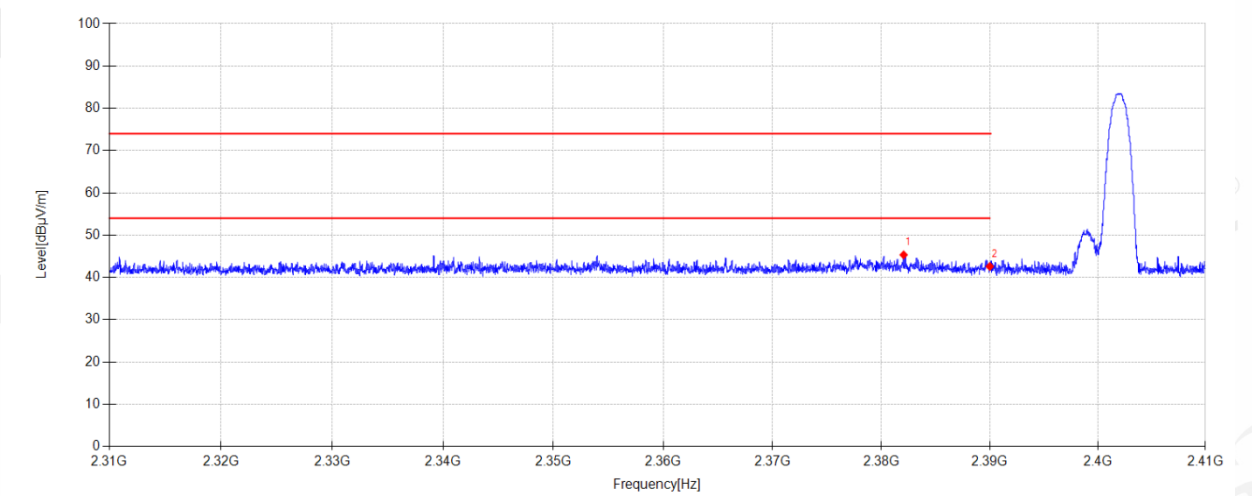
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\13

Memo:

Sample Numble:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2382.050	13.39	27.51	4.43	0.00	45.33	74.00	28.67	PK	Horizontal
2	2390.000	10.70	27.46	4.43	0.00	42.59	74.00	31.41	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

2DH5 2402 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

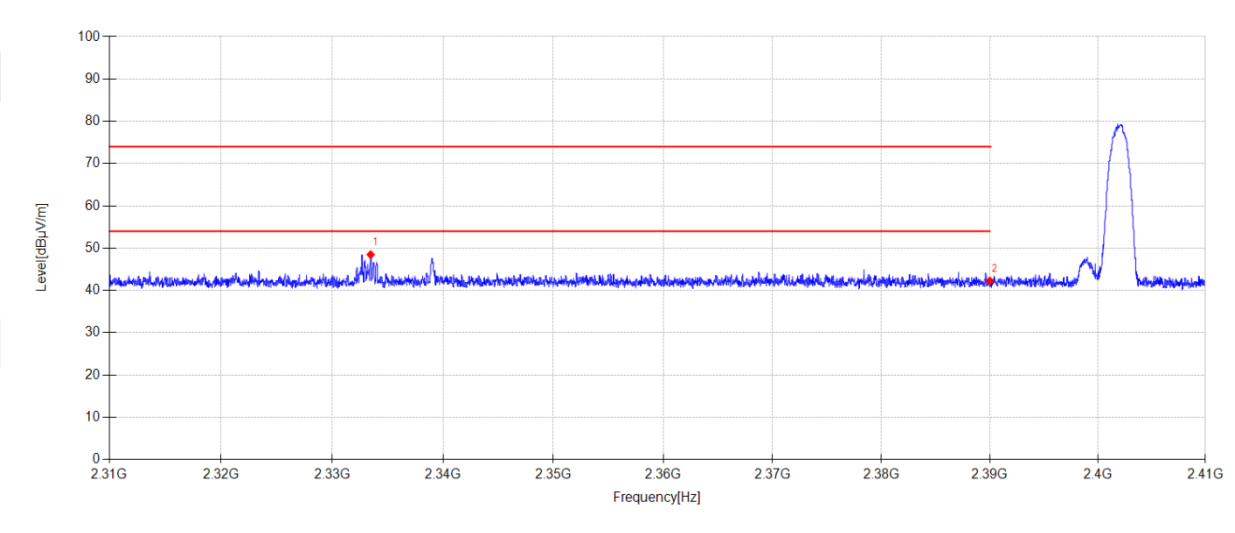
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\14

Memo:

Sample Numbler:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2333.460	16.40	27.63	4.44	0.00	48.47	74.00	25.53	PK	Vertical
2	2390.000	10.38	27.46	4.43	0.00	42.27	74.00	31.73	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

2DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

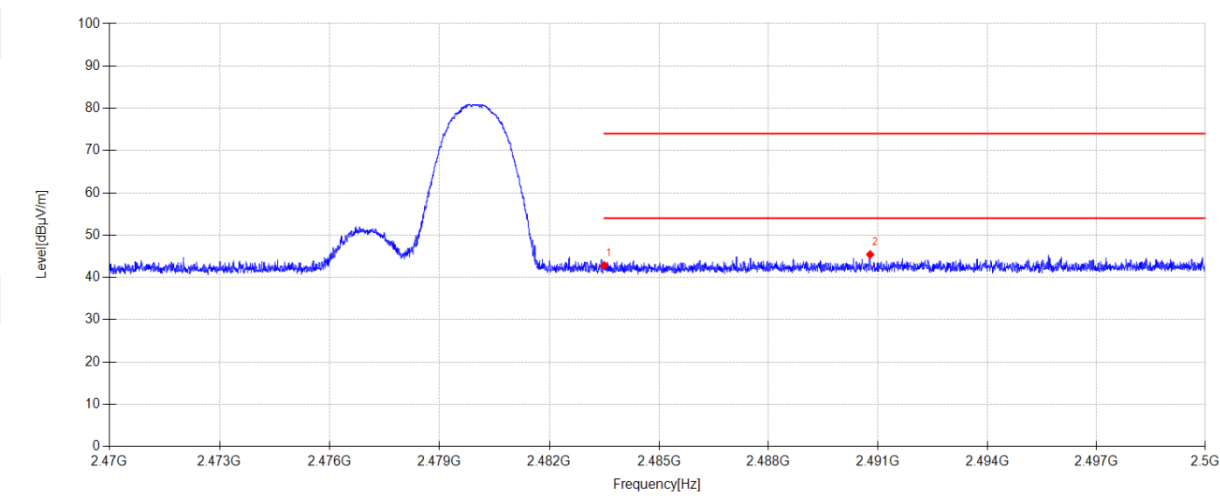
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\19

Memo:

Sample Numble:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	10.91	27.54	4.40	0.00	42.85	74.00	31.15	PK	Horizontal
2	2490.787	13.42	27.61	4.39	0.00	45.42	74.00	28.58	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

2DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

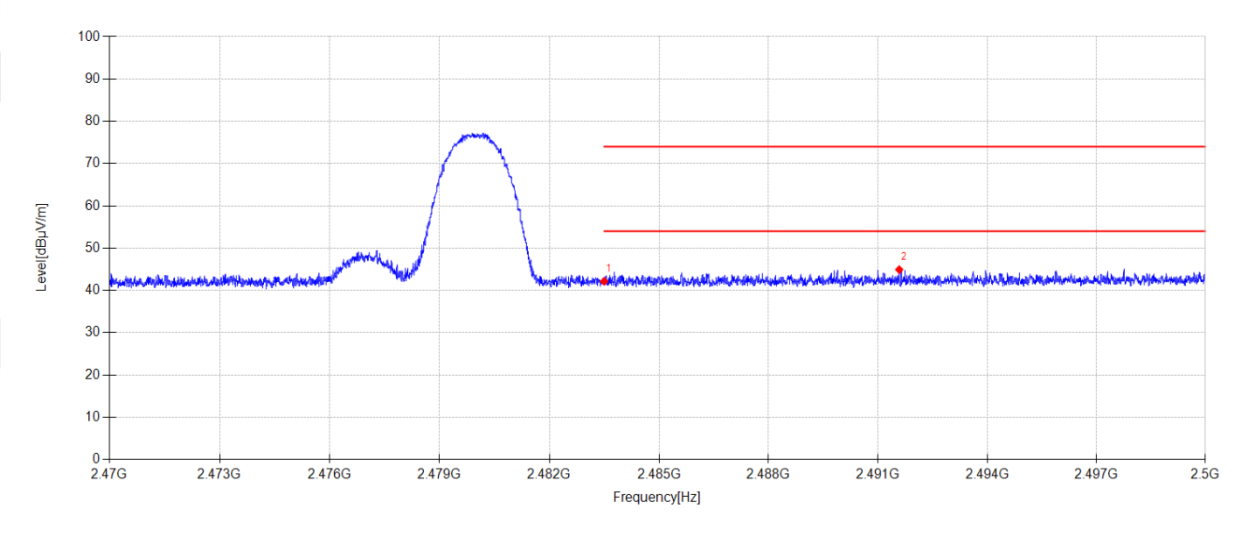
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT120

Memo:

Sample Numbler:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	10.21	27.54	4.40	0.00	42.15	74.00	31.85	PK	Vertical
2	2491.585	12.91	27.62	4.39	0.00	44.92	74.00	29.08	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

3DH5 2402 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

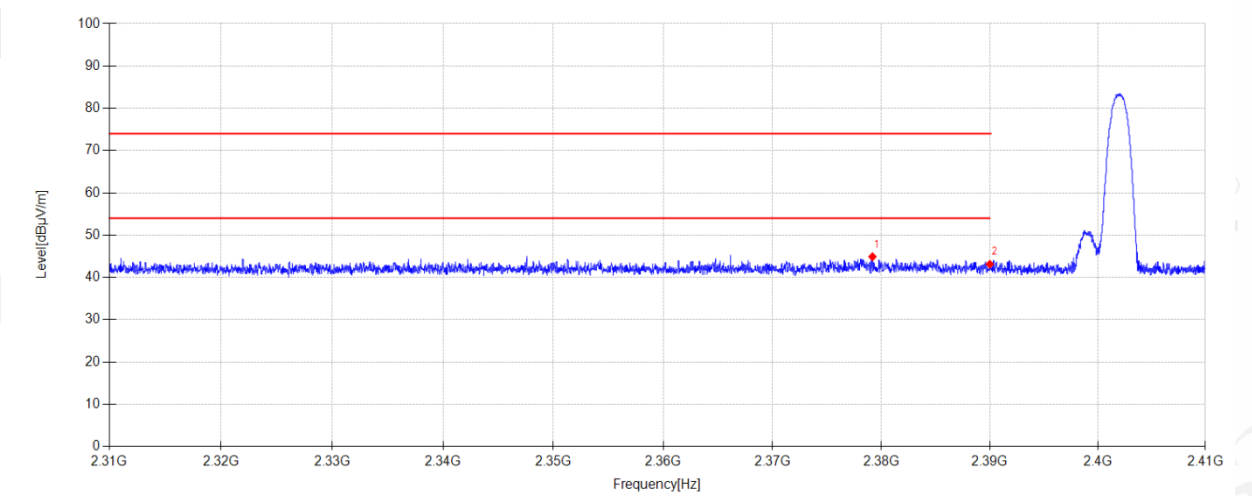
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\15

Memo:

Sample Numble:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2379.180	12.96	27.52	4.43	0.00	44.91	74.00	29.09	PK	Horizontal
2	2390.000	11.24	27.46	4.43	0.00	43.13	74.00	30.87	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

3DH5 2402 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

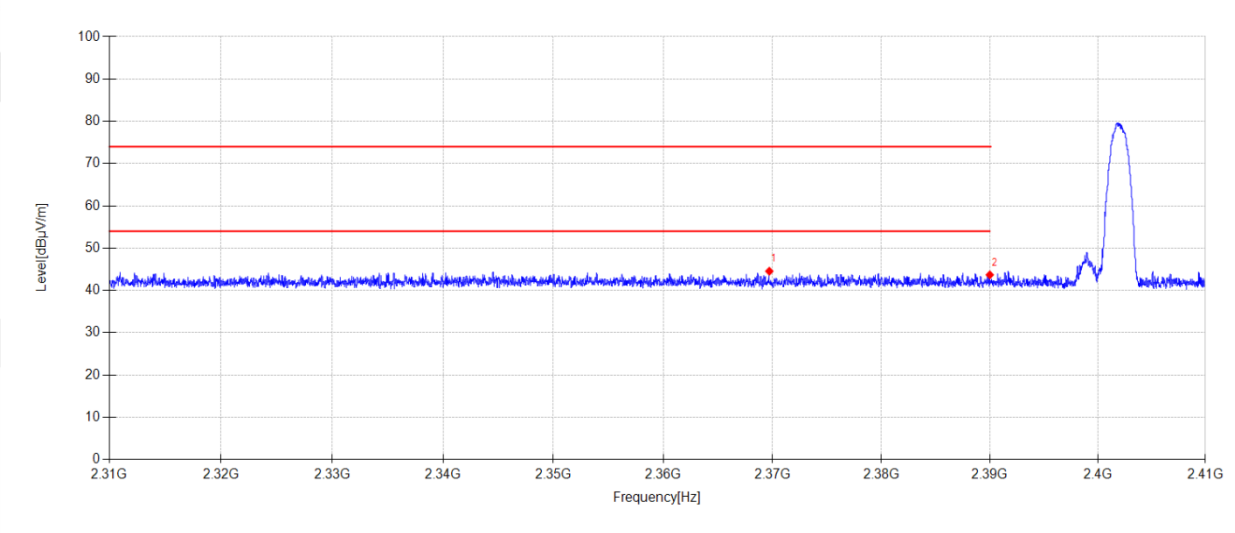
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT16

Memo:

Sample Numbler:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2369.710	12.54	27.58	4.43	0.00	44.55	74.00	29.45	PK	Vertical
2	2390.000	11.80	27.46	4.43	0.00	43.69	74.00	30.31	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

3DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

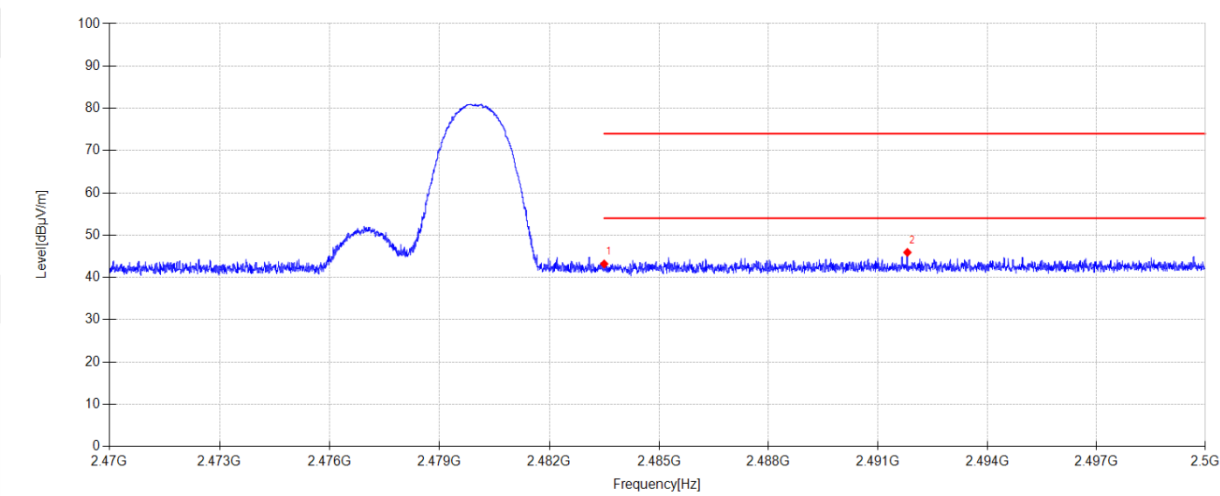
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\17

Memo:

Sample Numble:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	11.25	27.54	4.40	0.00	43.19	74.00	30.81	PK	Horizontal
2	2491.810	13.91	27.62	4.39	0.00	45.92	74.00	28.08	PK	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-10-09

Tested By:

Lin Guoyuan

EUT:

Bluetooth Headphones

Model Number:

103759

Test Mode:

3DH5 2480 MHz TX Mode

Power Supply:

Battery

Condition:

Temp:23.4°C;Humi:55.4%

Test Site:

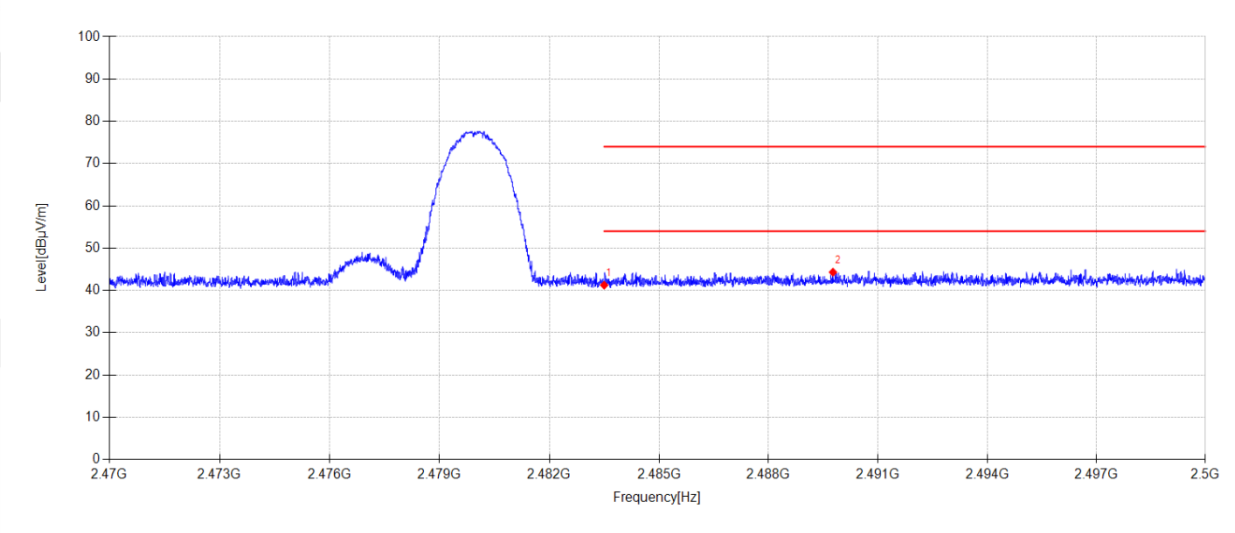
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25090308-1E\FCC Above 1G BT\18

Memo:

Sample Numbler:S25090308-006 Power Setting:10



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	9.31	27.54	4.40	0.00	41.25	74.00	32.75	PK	Vertical
2	2489.767	12.32	27.60	4.39	0.00	44.31	74.00	29.69	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

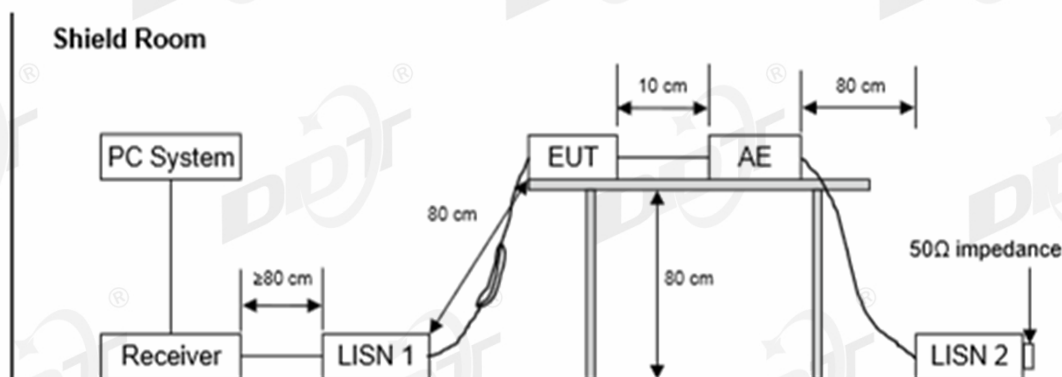
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

16. Power Line Conducted Emissions

16.1. Test equipment

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

16.2. Block diagram of test setup



16.3. 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.

16.4. Assistant equipment used for test

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

16.5. 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.

16.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “----” means Peak detection; “----” means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

16.7. Test data

Not applicable. EUT is DC powered.

18. Photos of the EUT

Please refer to DDT-Q25090308-1E appendix I

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