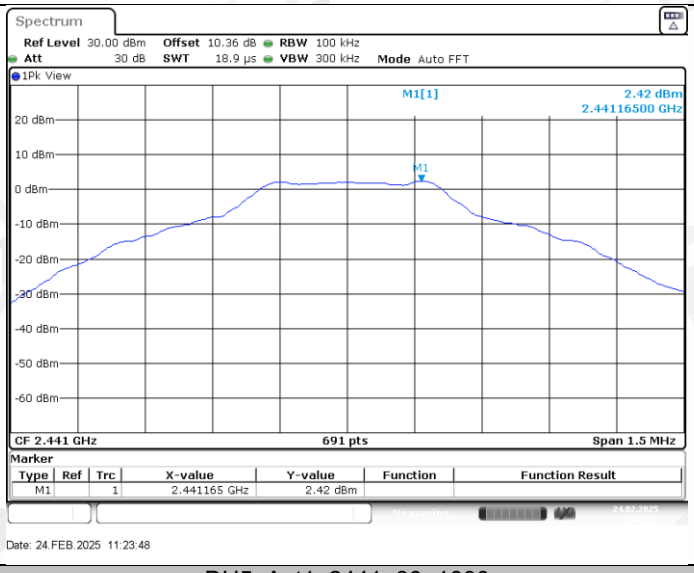
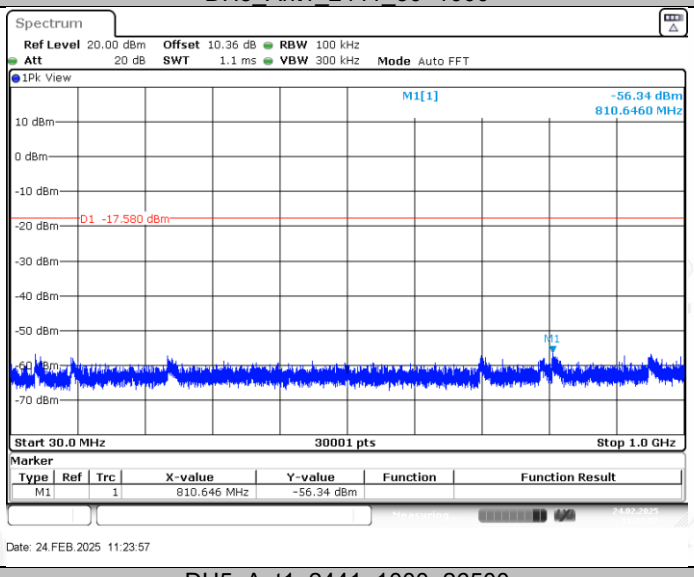
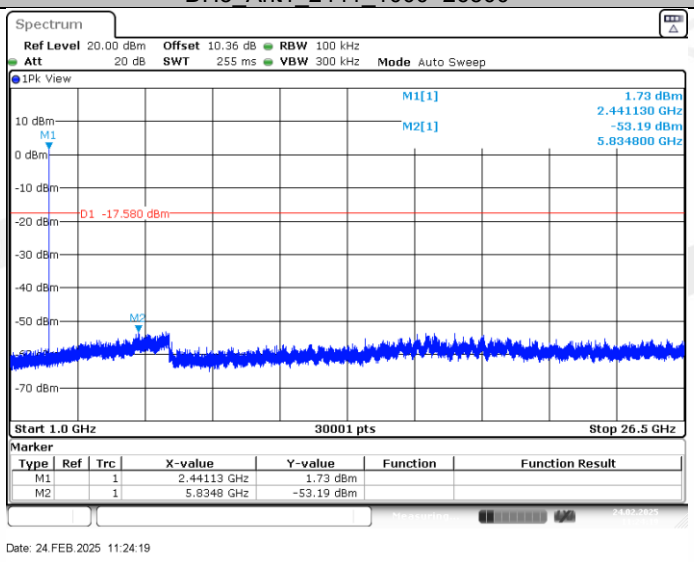


DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



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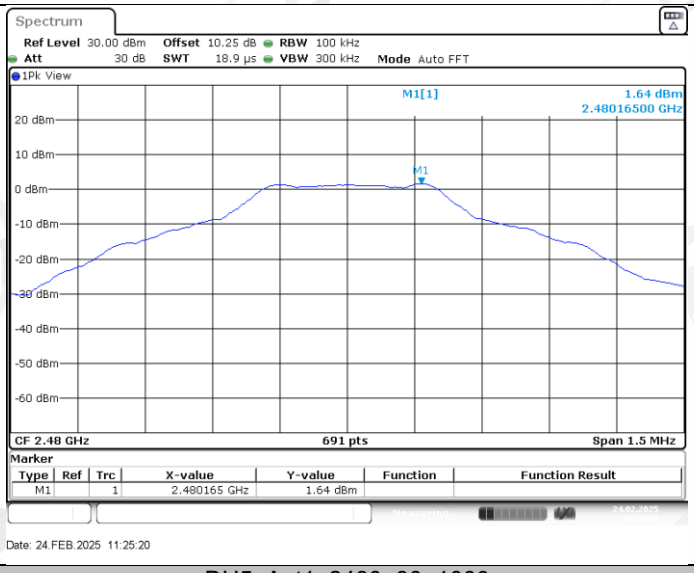

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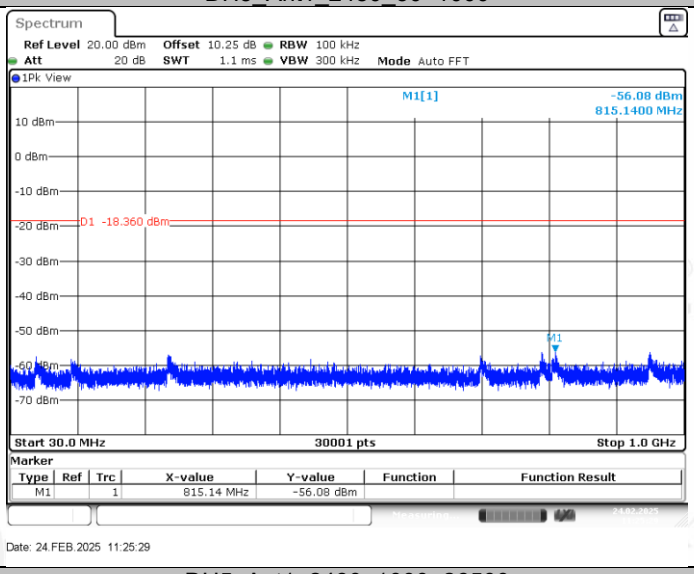

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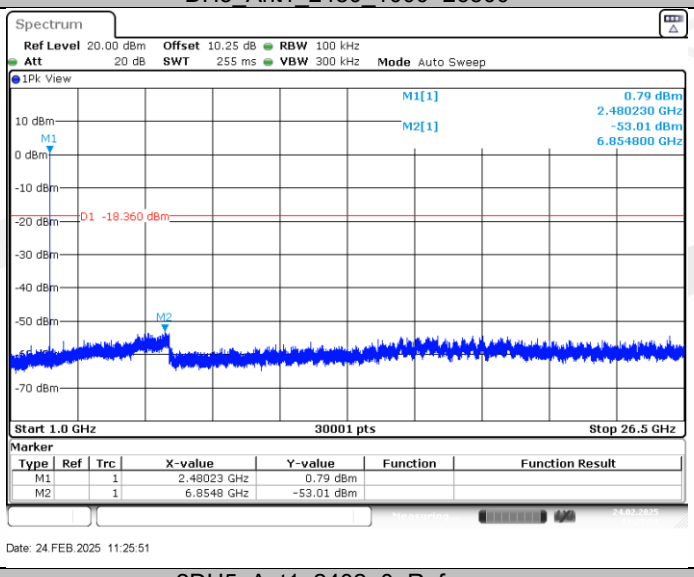

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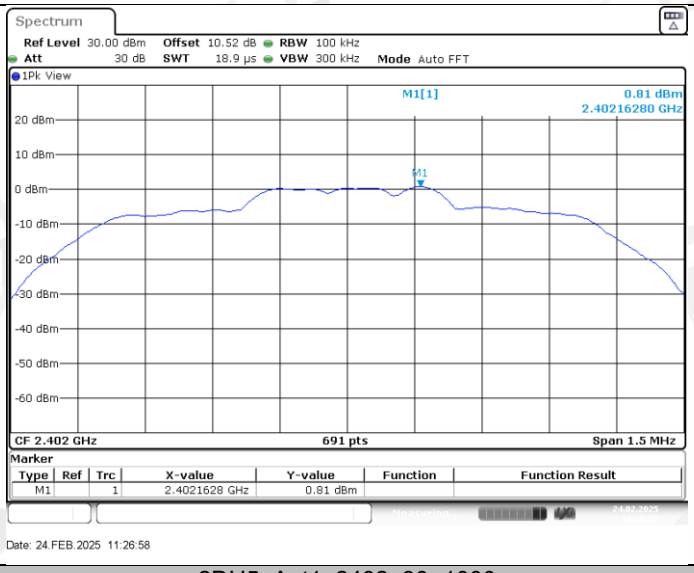

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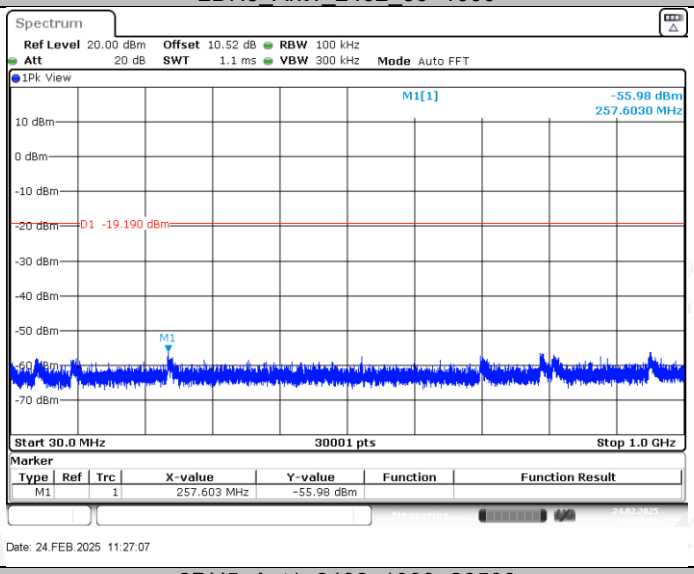

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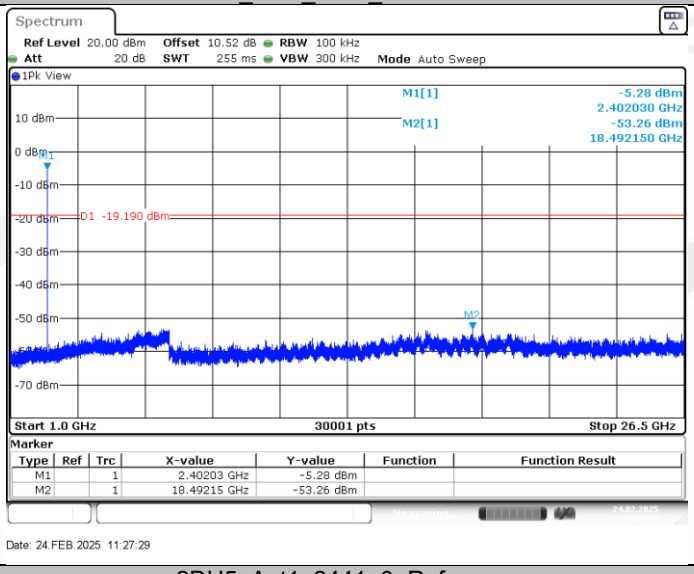

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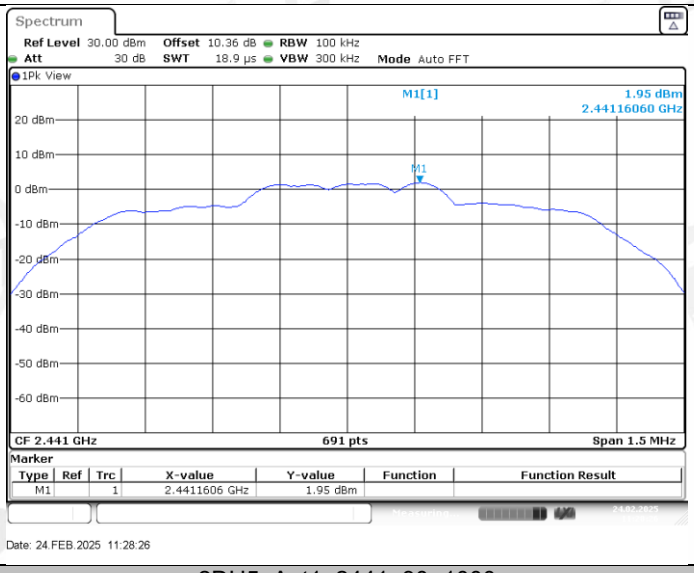

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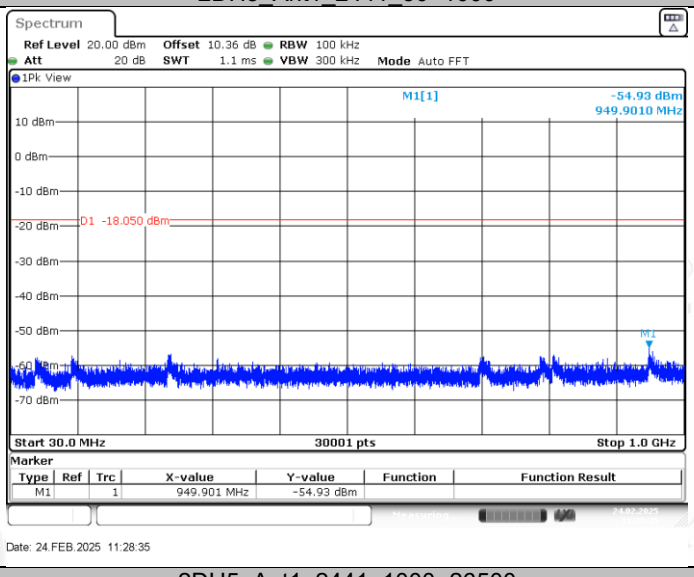
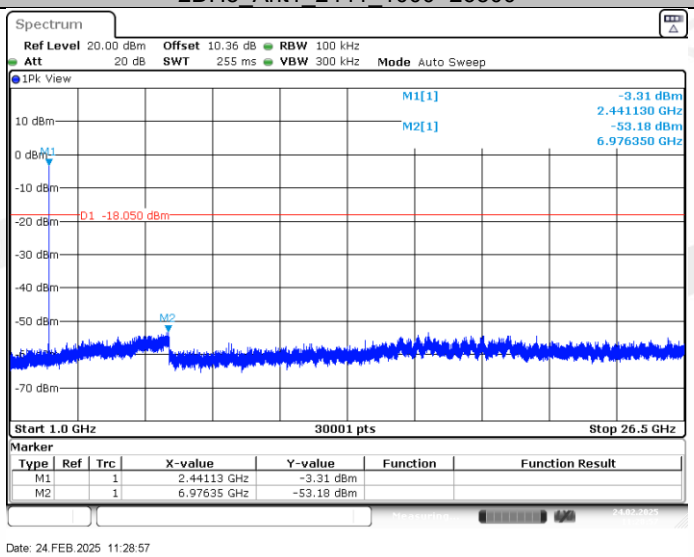
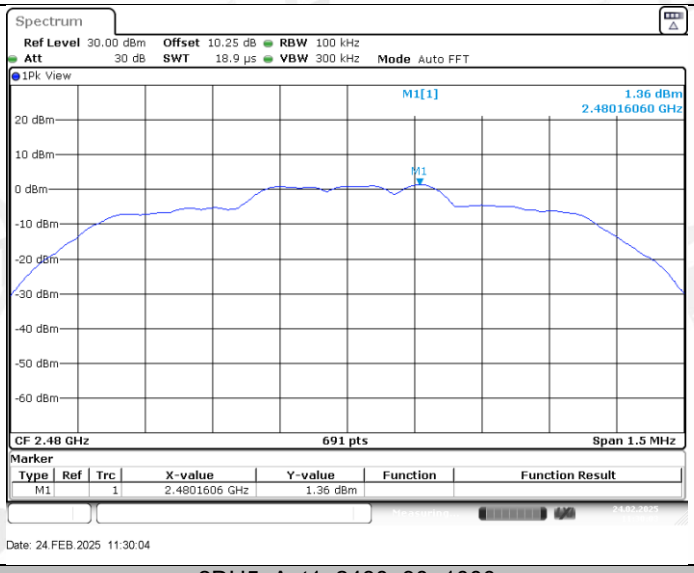


2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



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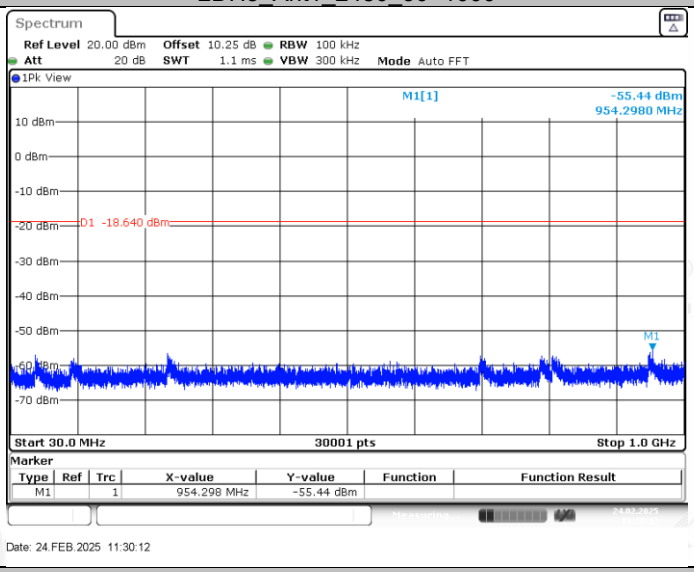
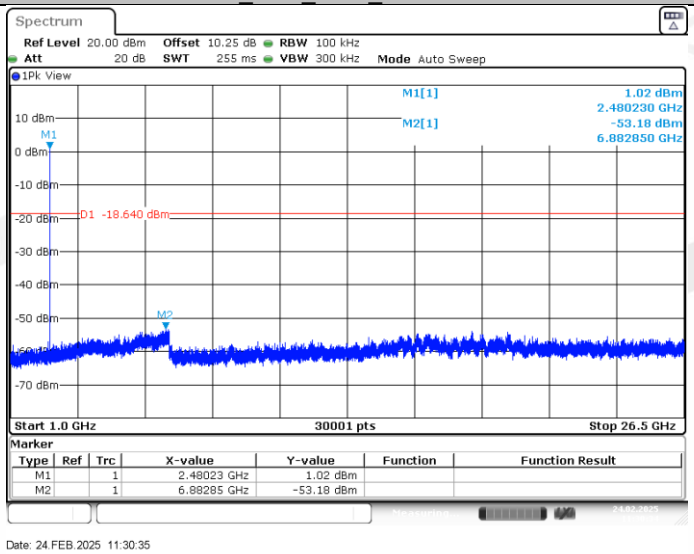
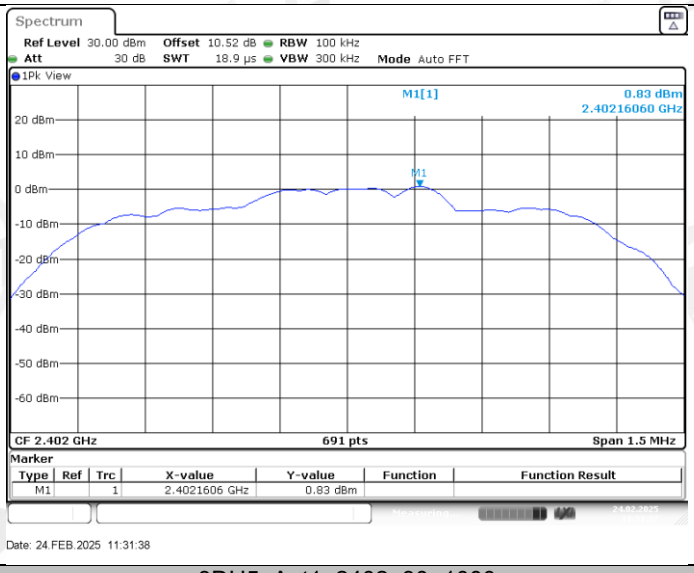


2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



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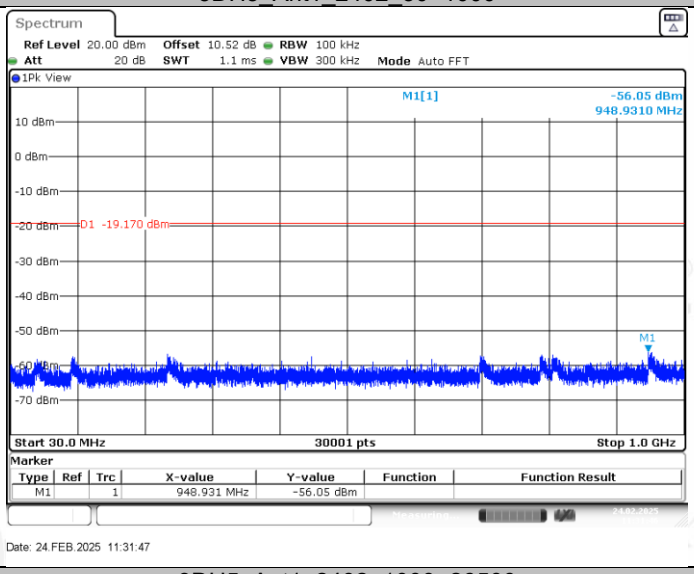
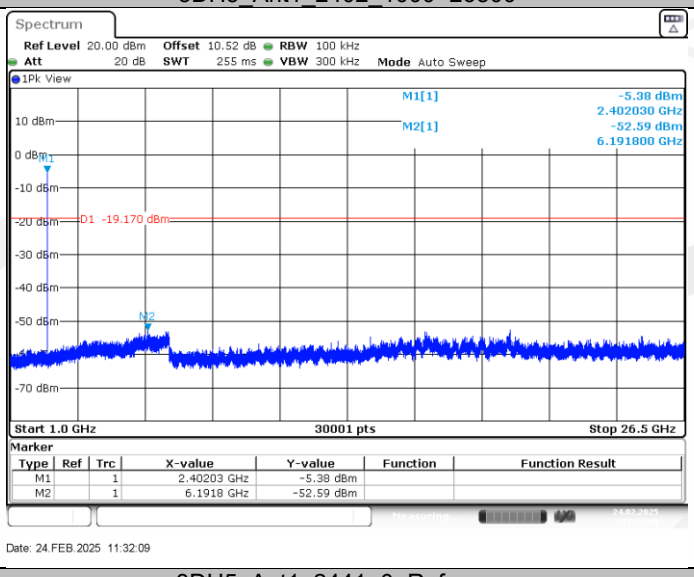


3DH5_Ant1_2402_1000~26500



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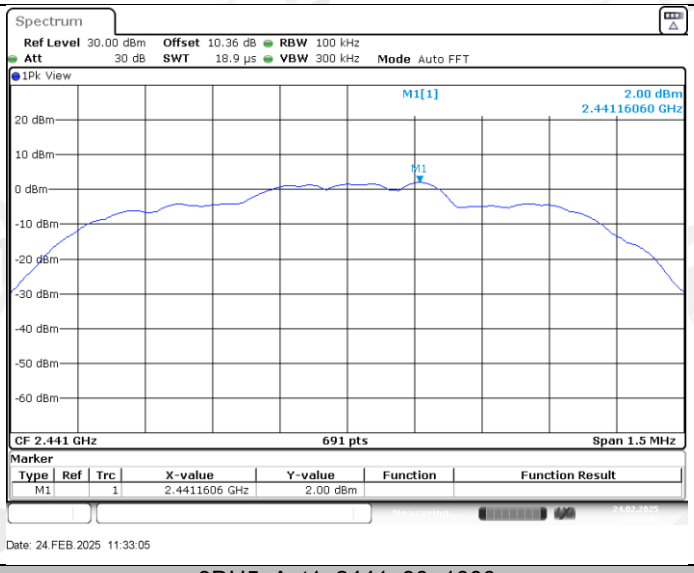

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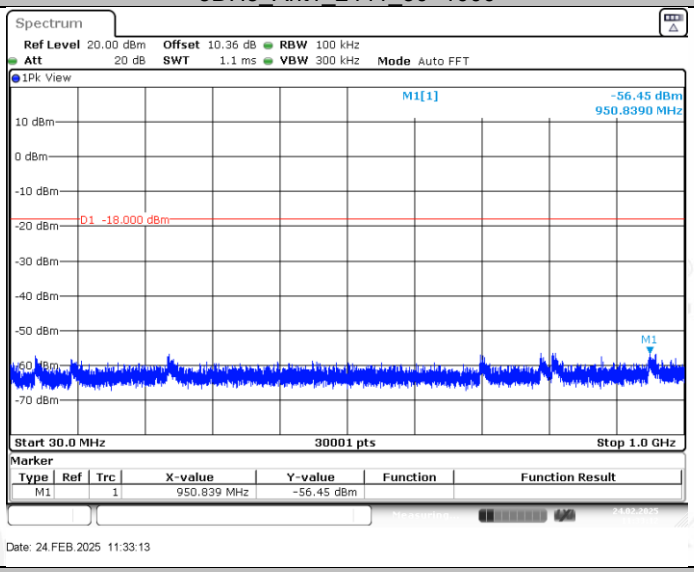
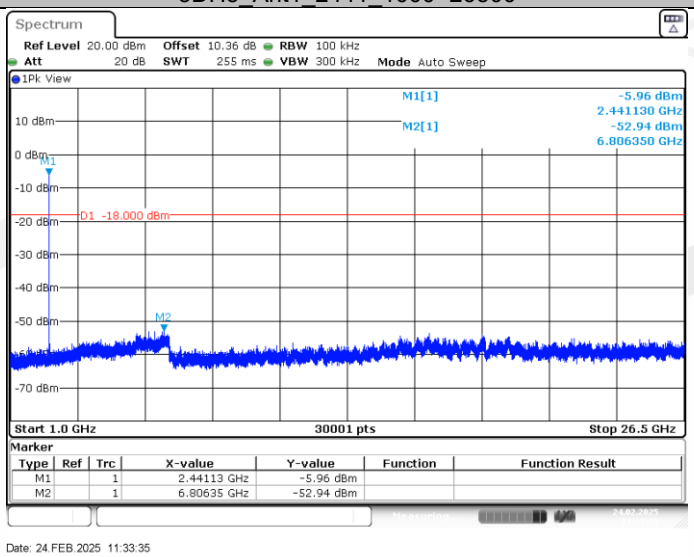
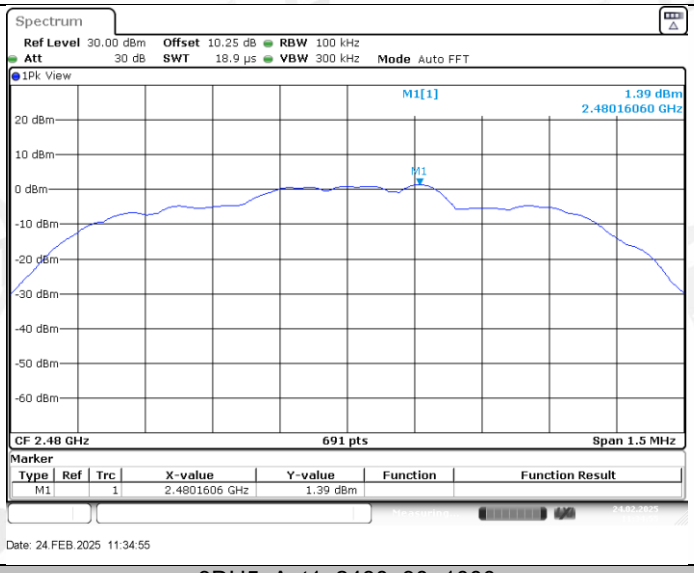


3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



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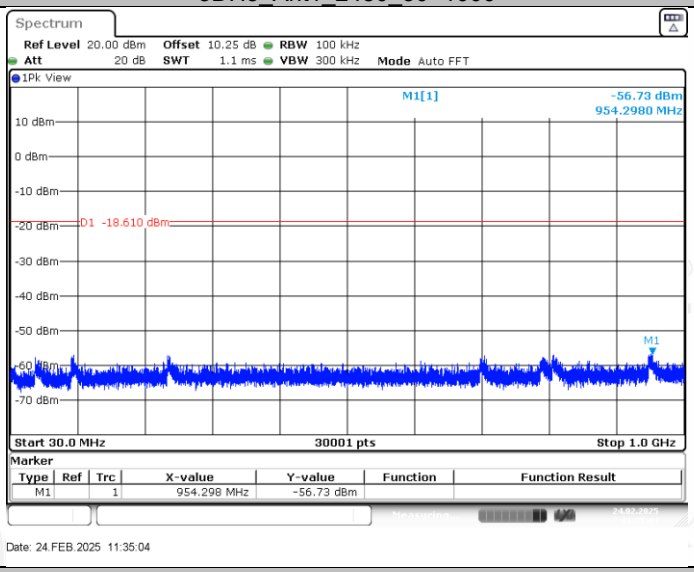

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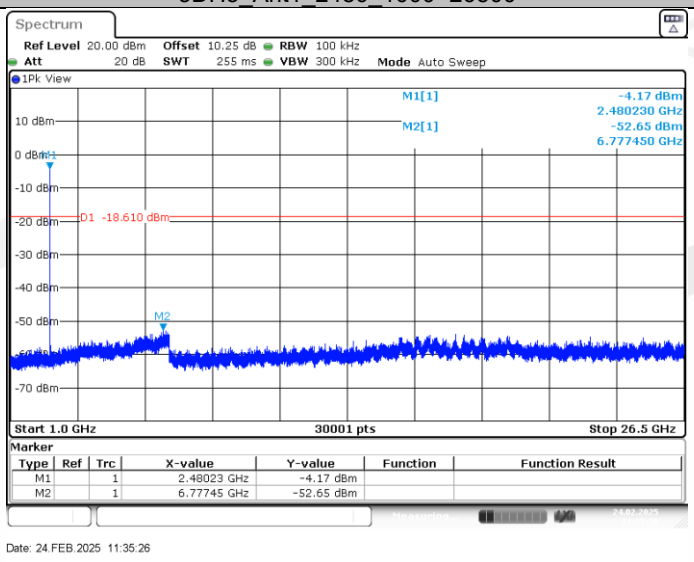
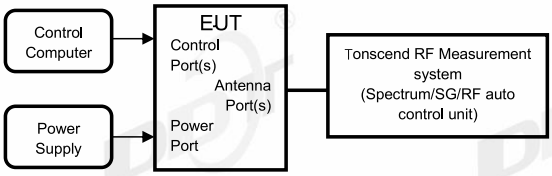


12. Duty cycle

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:
Duty cycle= Pulse's on time / Burst cycle

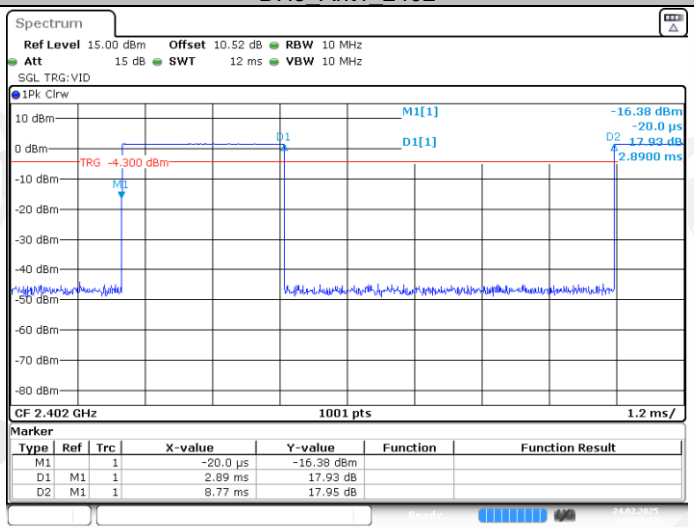
12.4. Test result

Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	25.4℃,52.1%RH	Test Date:	2025.02.24
Test Power Supply:	DC 12V	Sample Number:	S24071103-004

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	8.77	32.95	4.82
		2441	2.89	8.76	32.99	4.82
		2480	2.89	8.76	32.99	4.82
2DH5	Ant1	2402	2.89	8.76	32.99	4.82
		2441	2.89	8.75	33.03	4.81
		2480	2.89	8.76	32.99	4.82
3DH5	Ant1	2402	2.89	8.76	32.99	4.82
		2441	2.89	8.76	32.99	4.82
		2480	2.89	8.76	32.99	4.82

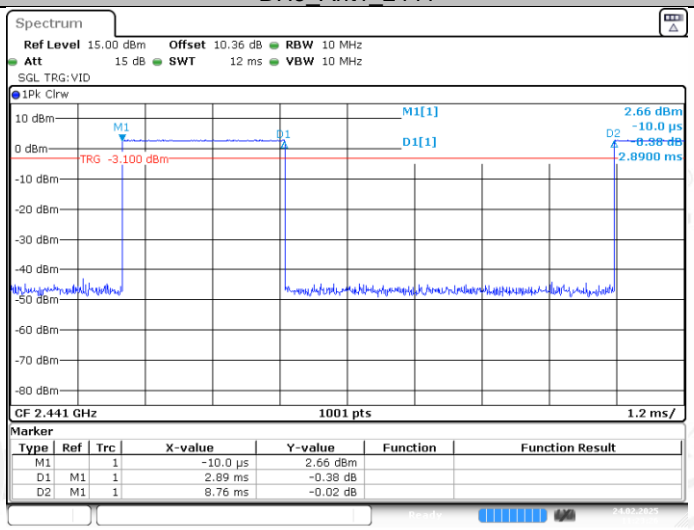
12.5. Test graphs

DH5_Ant1_2402



Date: 24.FEB.2025 11:21:50

DH5_Ant1_2441



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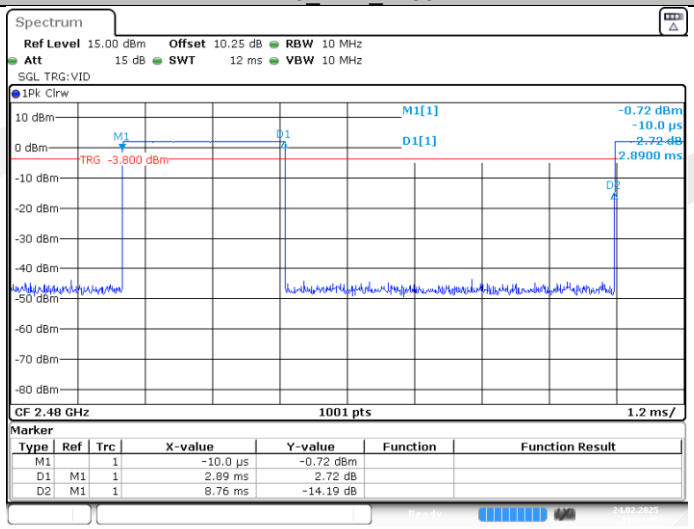
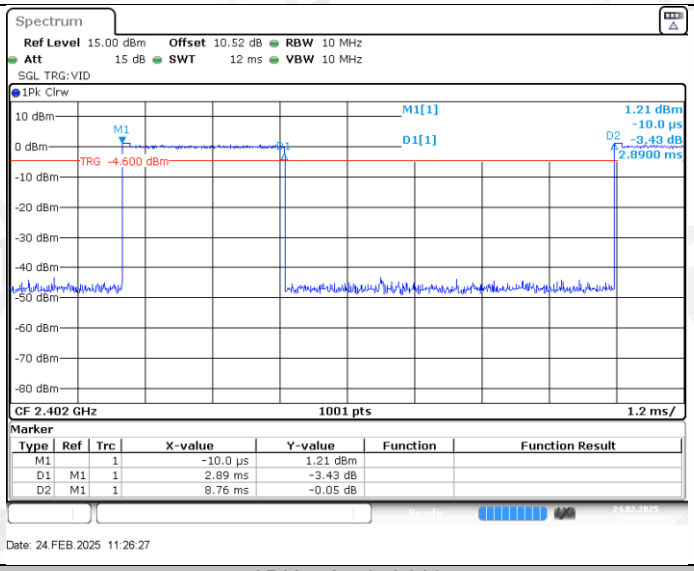
DH5_Ant1_2480



Date: 24.FEB.2025 11:24:49

2DH5_Ant1_2402



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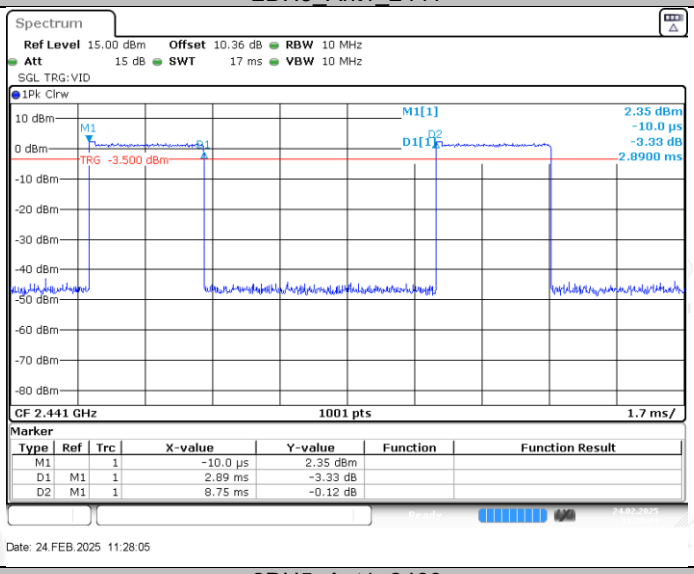

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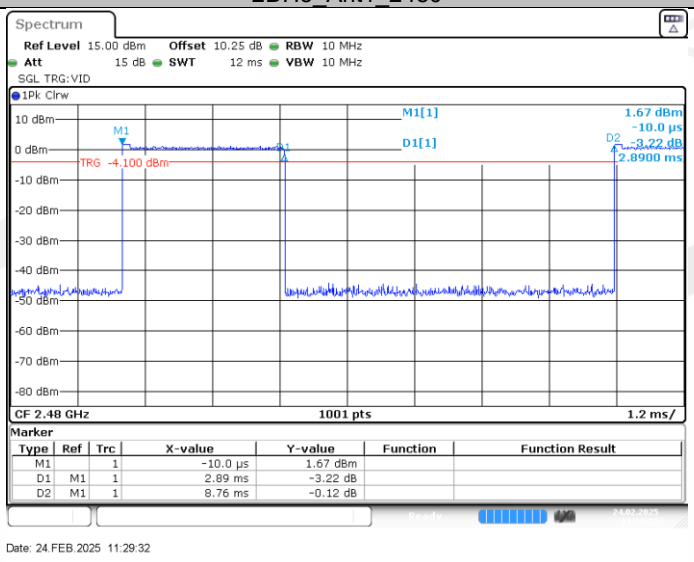
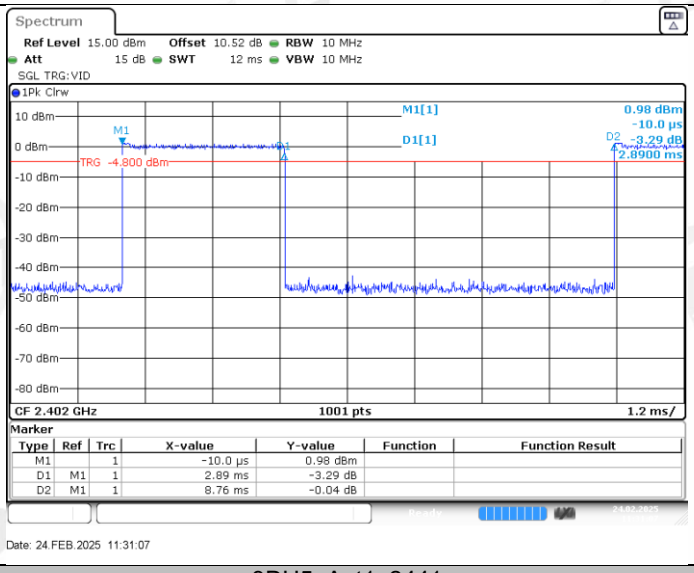


3DH5_Ant1_2402



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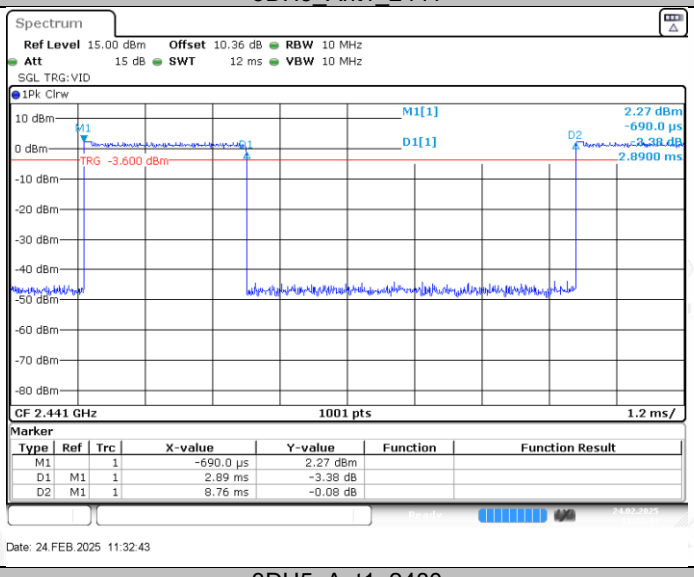

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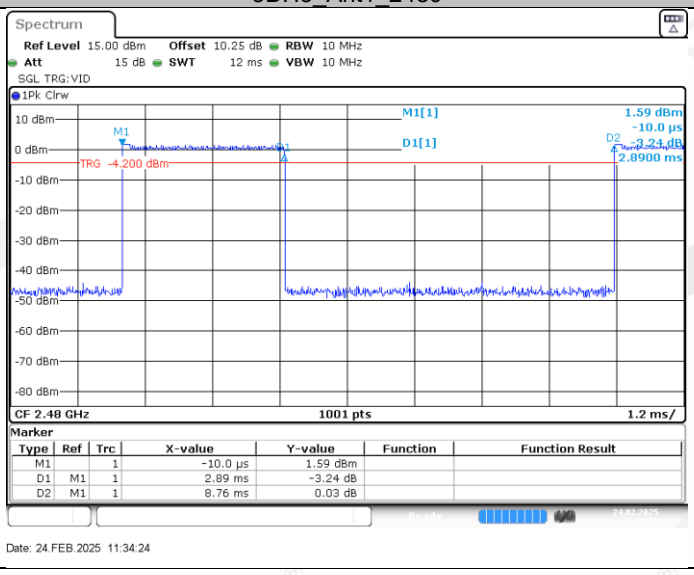


13. Antenna Requirements

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.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

13.2. Result

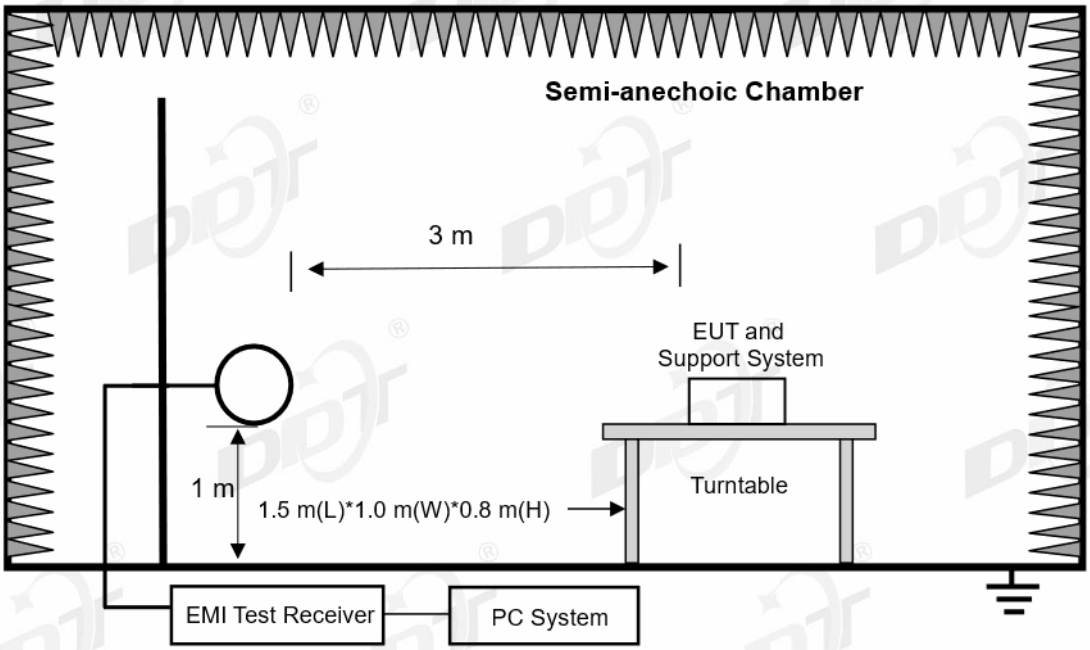
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

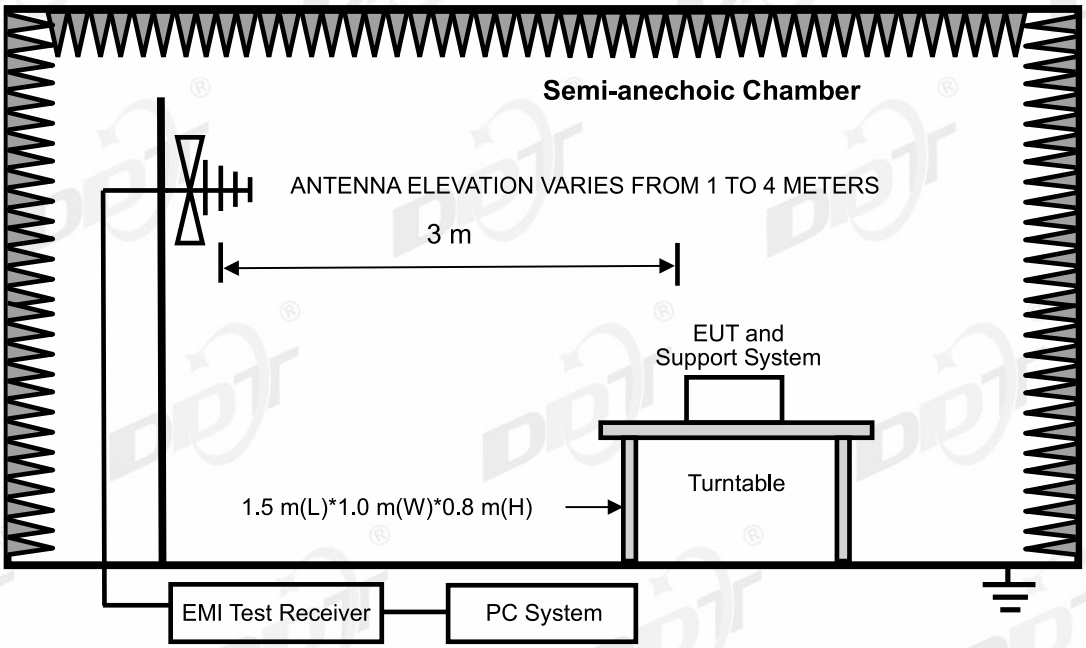
14. Radiated Emission

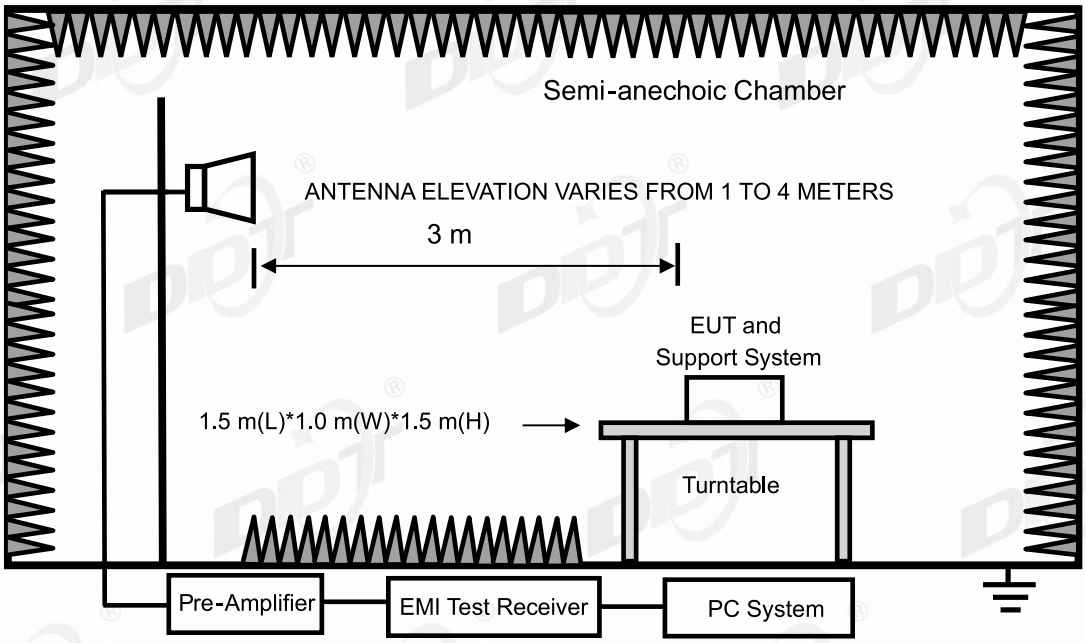
14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	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
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/04/01
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2026/03/28
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25

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

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 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:

$Limit_{3m}$(dBuV/m)= $Limit_{30m}$(dBuV/m) + 40Log(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, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 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 C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0°to 360°on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

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

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

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

(c) Change modulation type of device if practicable.

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

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

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

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

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

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

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

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

(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, π/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.

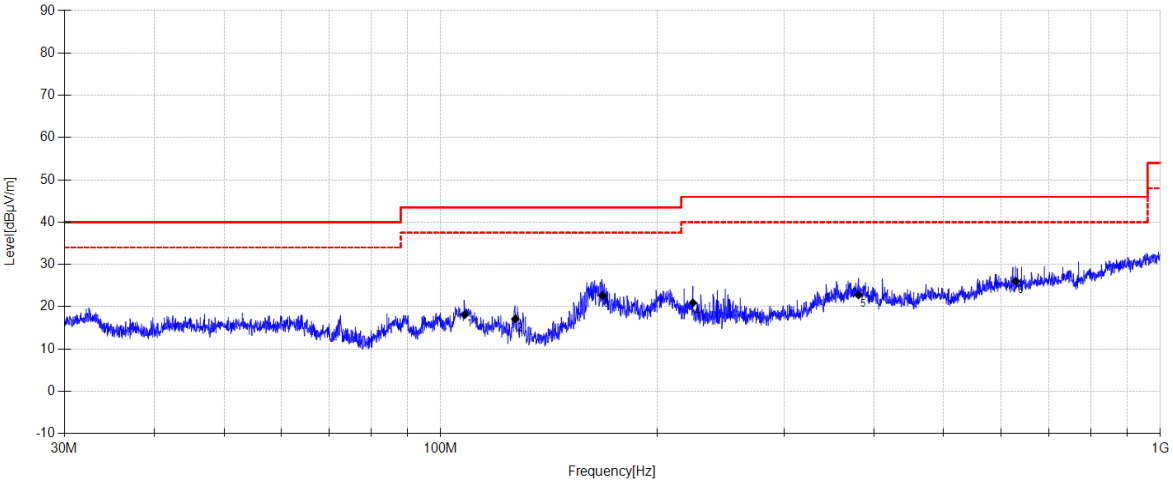
14.6. Test result

PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:	2025-05-16	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX BT Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Below 1G\20250516-094344_H		
Memo:	Sample Numble:S24071103		



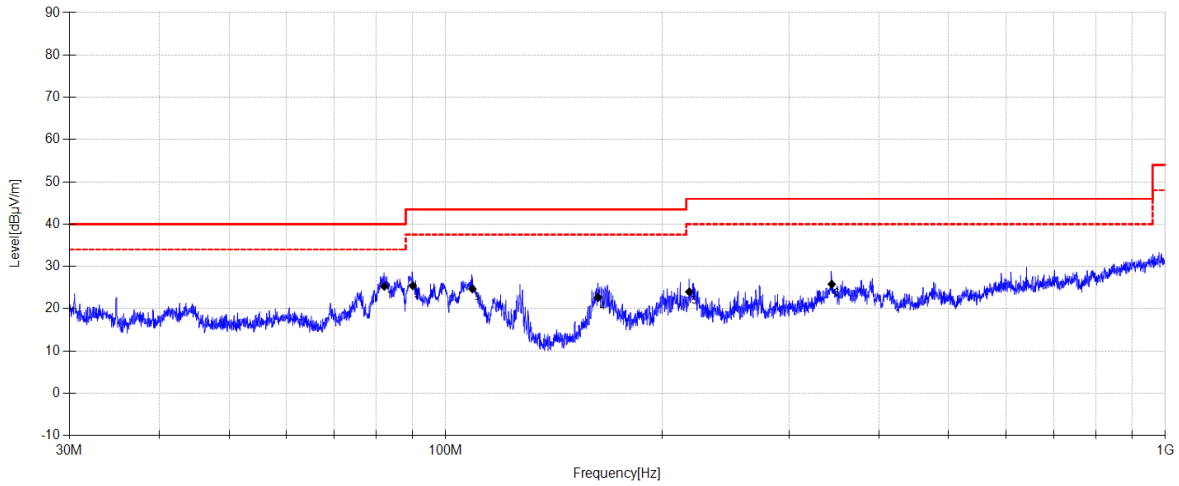
Final Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	108.011	33.54	11.41	4.26	18.10	43.50	25.40	QP	Horizontal
2	127.003	34.68	9.20	4.37	17.12	43.50	26.38	QP	Horizontal
3	167.766	40.4	8.88	4.59	22.70	43.50	20.80	QP	Horizontal
4	224.114	36.05	11.25	4.87	20.92	46.00	25.08	QP	Horizontal
5	380.788	33.22	15.47	5.54	22.79	46.00	23.21	QP	Horizontal
6	629.535	32.65	18.41	6.46	26.02	46.00	19.98	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:	2025-05-16	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX BT Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Below 1G\20250516-094418_V		
Memo:	Sample Numble:S24071103		



Final Data List

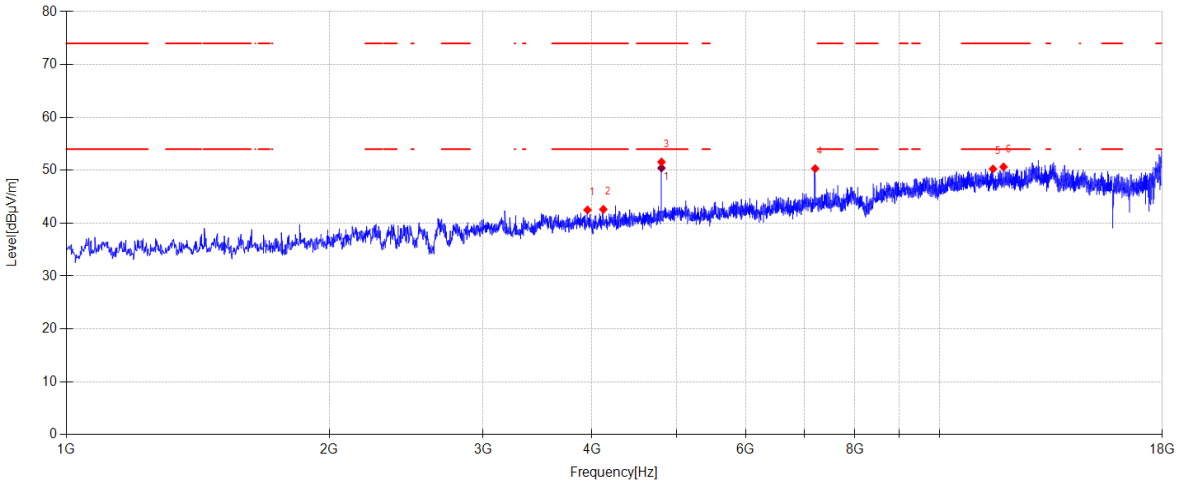
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	82.169	43.25	9.05	4.10	25.30	40.00	14.70	QP	Vertical
2	90.011	42.88	9.50	4.15	25.43	43.50	18.07	QP	Vertical
3	108.924	39.49	12.05	4.27	24.70	43.50	18.80	QP	Vertical
4	162.784	40.22	9.02	4.56	22.64	43.50	20.86	QP	Vertical
5	218.069	39.51	10.88	4.84	23.99	46.00	22.01	QP	Vertical
6	343.976	37.58	14.24	5.40	25.80	46.00	20.20	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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2402 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\1		
Memo:	Sample Numble:S24071103		

Test Graph



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	46.02	31.09	5.06	-39.67	42.50	74.00	31.50	PK	Horizontal
2	4121.200	46.02	31.14	5.12	-39.67	42.61	74.00	31.39	PK	Horizontal
3	4804.600	53.04	32.62	5.53	-39.62	51.57	74.00	22.43	PK	Horizontal
4	7205.000	47.79	36.80	6.55	-40.82	50.32	-	-	PK	Horizontal
5	11516.200	42.14	39.17	8.46	-39.52	50.25	74.00	23.75	PK	Horizontal
6	11840.900	42.92	38.90	8.66	-39.84	50.64	74.00	23.36	PK	Horizontal

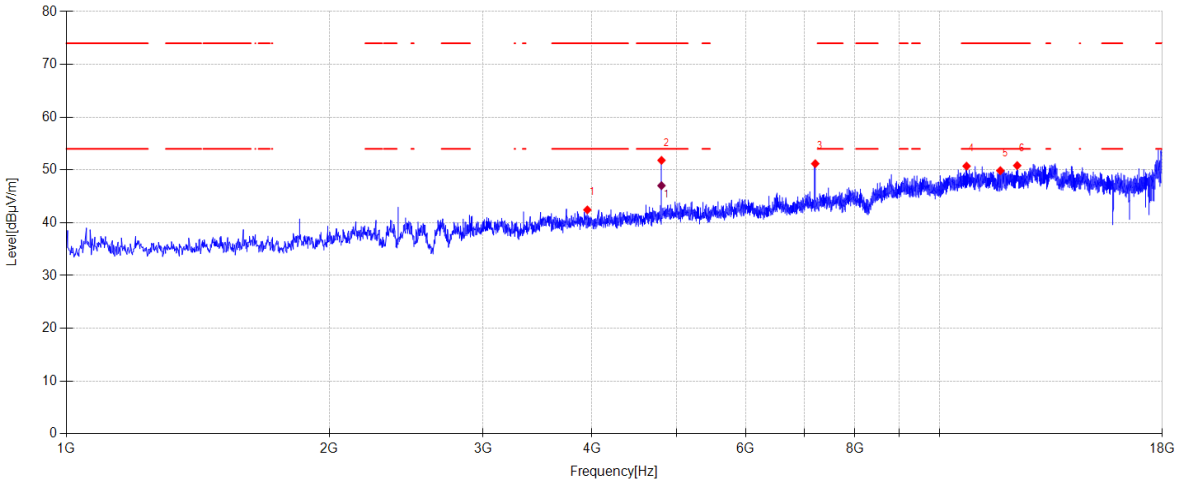
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	4804.010	51.90	32.62	5.53	50.43	54.00	3.57	AV	Horizontal

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2402 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\2		
Memo:	Sample Numble:S24071103		

Test Graph



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	3951.200	45.95	31.10	5.06	-39.67	42.44	74.00	31.56	PK	Vertical
2	4804.600	53.29	32.62	5.53	-39.62	51.82	74.00	22.18	PK	Vertical
3	7206.700	48.65	36.80	6.55	-40.81	51.19	-	-	PK	Vertical
4	10741.000	42.48	39.40	8.00	-39.16	50.72	74.00	23.28	PK	Vertical
5	11742.300	42.05	38.96	8.60	-39.74	49.87	74.00	24.13	PK	Vertical
6	12276.100	42.57	39.30	8.90	-39.94	50.83	74.00	23.17	PK	Vertical

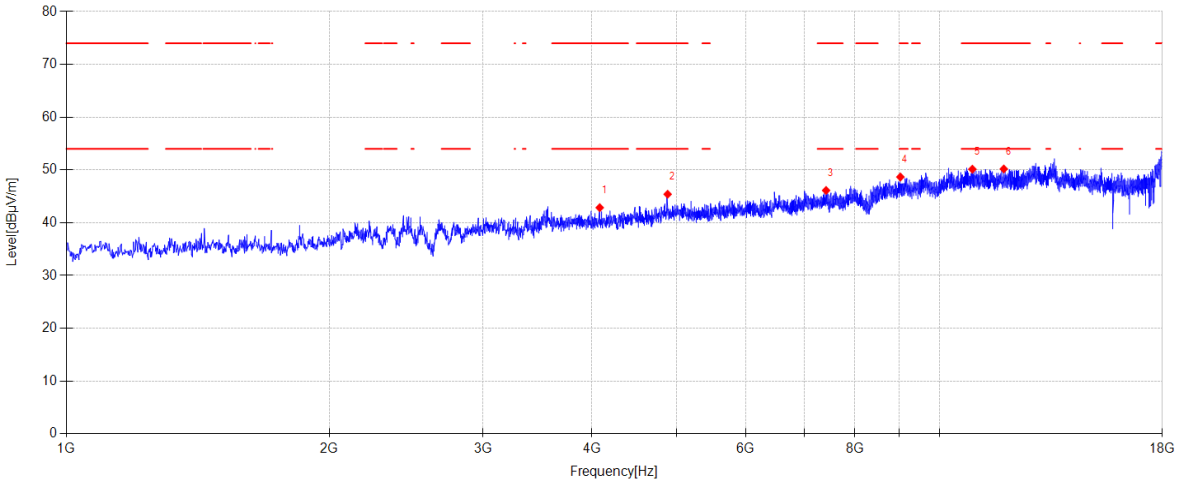
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	4804.040	48.50	32.62	5.53	47.03	54.00	6.97	AV	Vertical

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2441 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\3		
Memo:	Sample Numble:S24071103		

Test Graph



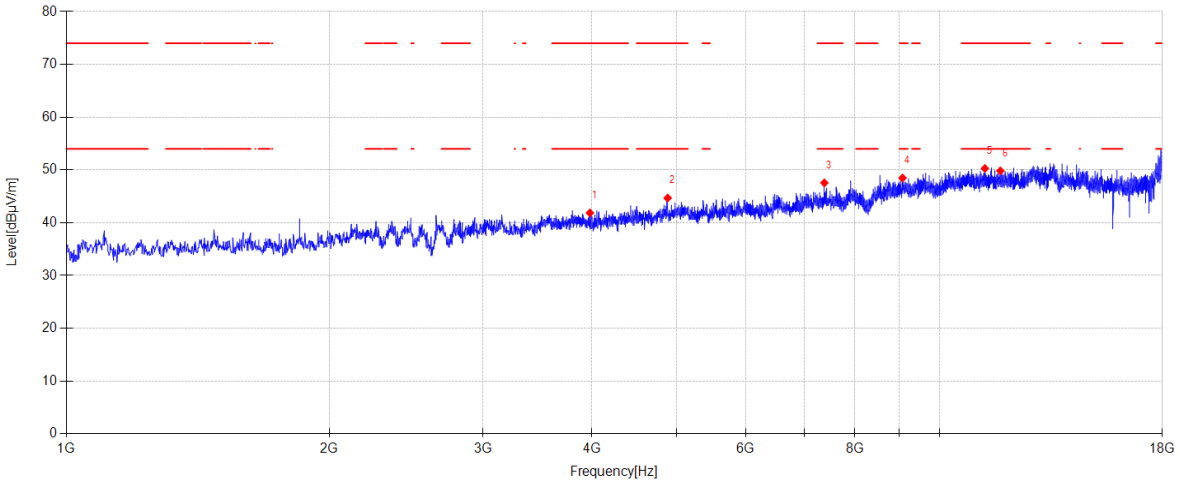
Data List										
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**AMP [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	4082.100	46.36	31.06	5.10	-39.67	42.85	74.00	31.15	PK	Horizontal
2	4882.800	46.15	33.28	5.58	-39.61	45.40	74.00	28.60	PK	Horizontal
3	7415.800	43.42	36.67	6.66	-40.63	46.12	74.00	27.88	PK	Horizontal
4	9020.600	41.84	38.34	7.31	-38.82	48.67	74.00	25.33	PK	Horizontal
5	10905.900	41.82	39.30	8.08	-39.06	50.14	74.00	23.86	PK	Horizontal
6	11849.400	42.47	38.90	8.67	-39.85	50.19	74.00	23.81	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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2441 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\4		
Memo:	Sample Numble:S24071103		

Test Graph



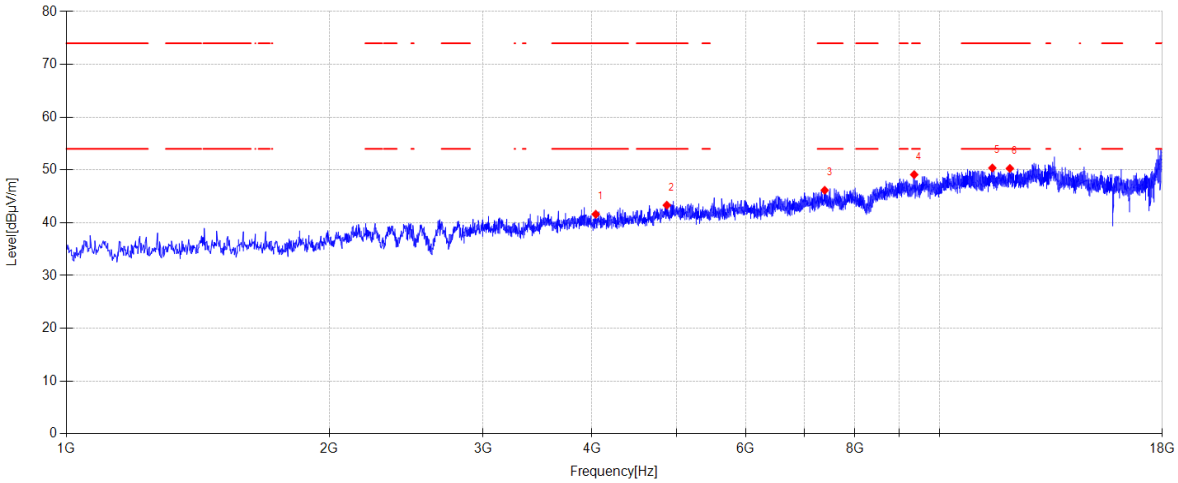
Data List										
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**AMP [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	3978.400	45.49	30.99	5.05	-39.67	41.86	74.00	32.14	PK	Vertical
2	4882.800	45.43	33.28	5.58	-39.61	44.68	74.00	29.32	PK	Vertical
3	7381.800	44.84	36.74	6.64	-40.66	47.56	74.00	26.44	PK	Vertical
4	9073.300	41.57	38.45	7.32	-38.86	48.48	74.00	25.52	PK	Vertical
5	11273.100	42.05	39.20	8.30	-39.27	50.28	74.00	23.72	PK	Vertical
6	11742.300	42.01	38.96	8.60	-39.74	49.83	74.00	24.17	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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2480 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\5		
Memo:	Sample Numble:S24071103		

Test Graph



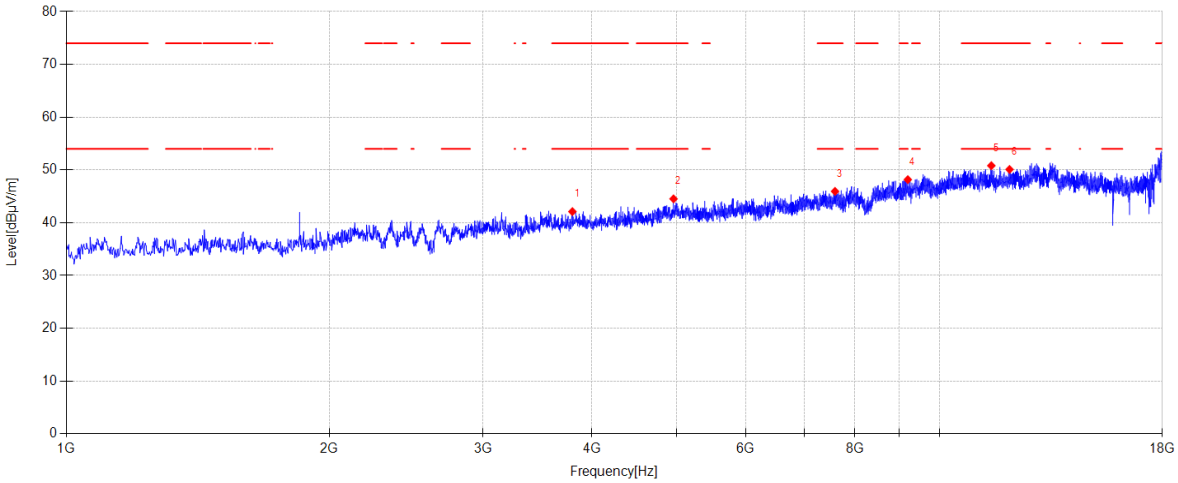
Data List										
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**AMP [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	4039.600	45.24	30.98	5.07	-39.68	41.61	74.00	32.39	PK	Horizontal
2	4872.600	43.92	33.44	5.57	-39.61	43.32	74.00	30.68	PK	Horizontal
3	7388.600	43.43	36.72	6.65	-40.65	46.15	74.00	27.85	PK	Horizontal
4	9355.500	42.07	38.70	7.42	-39.08	49.11	74.00	24.89	PK	Horizontal
5	11497.500	42.23	39.20	8.44	-39.50	50.37	74.00	23.63	PK	Horizontal
6	12039.800	42.26	39.24	8.78	-39.99	50.29	74.00	23.71	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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2480 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\6		
Memo:	Sample Numble:S24071103		

Test Graph



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	45.97	30.69	5.08	-39.63	42.11	74.00	31.89	PK	Vertical
2	4959.300	45.37	33.12	5.63	-39.60	44.52	74.00	29.48	PK	Vertical
3	7592.600	43.17	36.49	6.75	-40.47	45.94	74.00	28.06	PK	Vertical
4	9199.100	41.16	38.60	7.37	-38.96	48.17	74.00	25.83	PK	Vertical
5	11466.900	42.63	39.23	8.42	-39.47	50.81	74.00	23.19	PK	Vertical
6	12029.600	42.08	39.23	8.78	-39.99	50.10	74.00	23.90	PK	Vertical

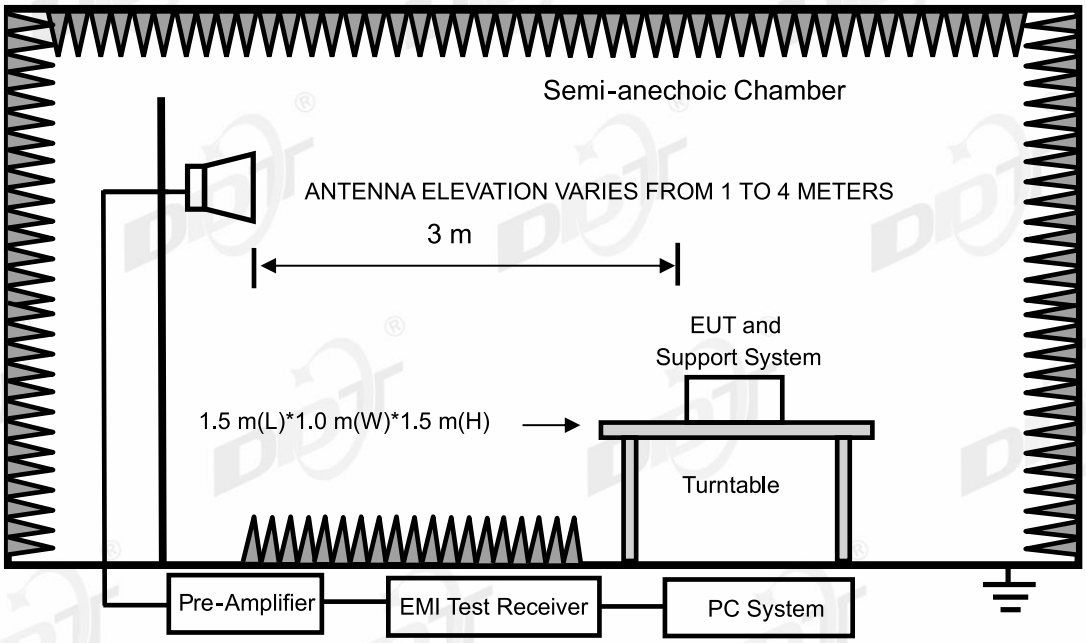
Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

15. Band Edge Compliance

15.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	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
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/04/01
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2026/03/28
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25

15.2. Block diagram of test setup



15.3. Limits

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, 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

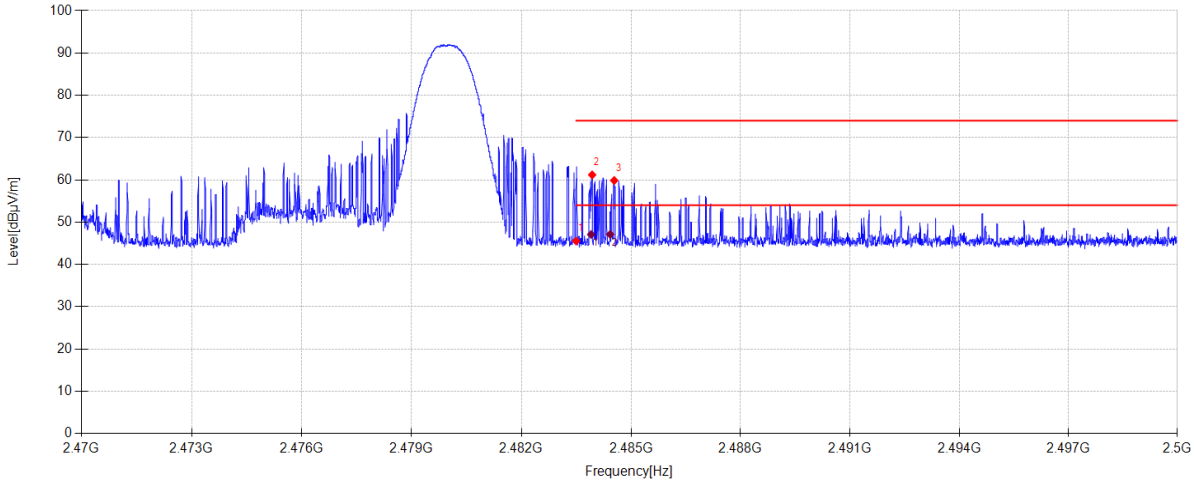
PASS. (See below detailed test result)

15.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2480 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\7		
Memo:	Sample Numble:S24071103		

Test Graph



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	14.39	27.53	3.62	0.00	45.54	74.00	28.46	PK	Horizontal
2	2483.938	30.02	27.54	3.62	0.00	61.18	74.00	12.82	PK	Horizontal
3	2484.541	28.70	27.54	3.62	0.00	59.86	74.00	14.14	PK	Horizontal

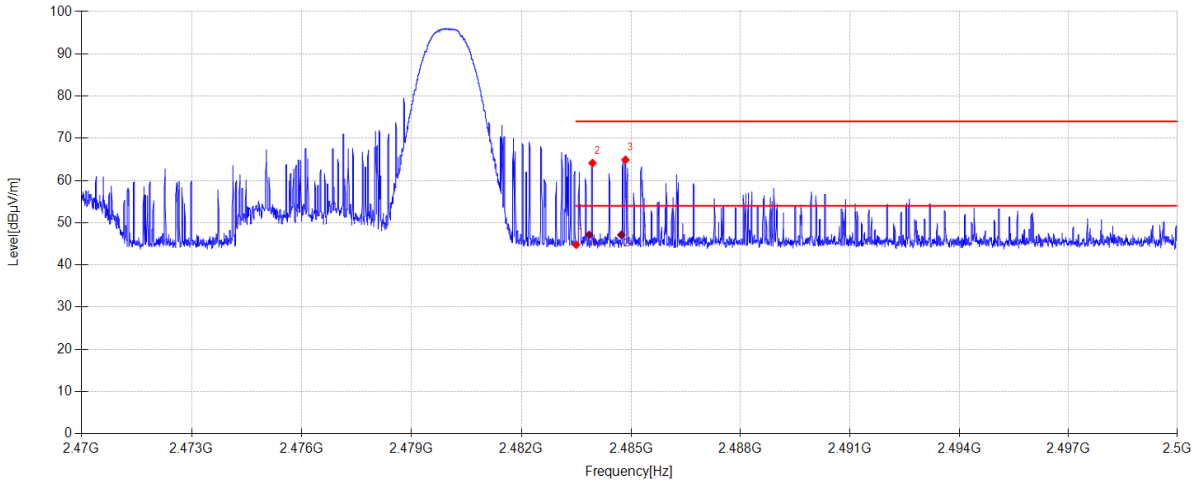
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2483.909	15.92	27.54	3.62	47.08	54.00	6.92	AV	Horizontal
2	2484.431	15.97	27.54	3.62	47.13	54.00	6.87	AV	Horizontal

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2480 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\8		
Memo:	Sample Numble:S24071103		

Test Graph



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	13.64	27.53	3.62	0.00	44.79	74.00	29.21	PK	Vertical
2	2483.947	32.97	27.54	3.62	0.00	64.13	74.00	9.87	PK	Vertical
3	2484.850	33.74	27.54	3.62	0.00	64.90	74.00	9.10	PK	Vertical

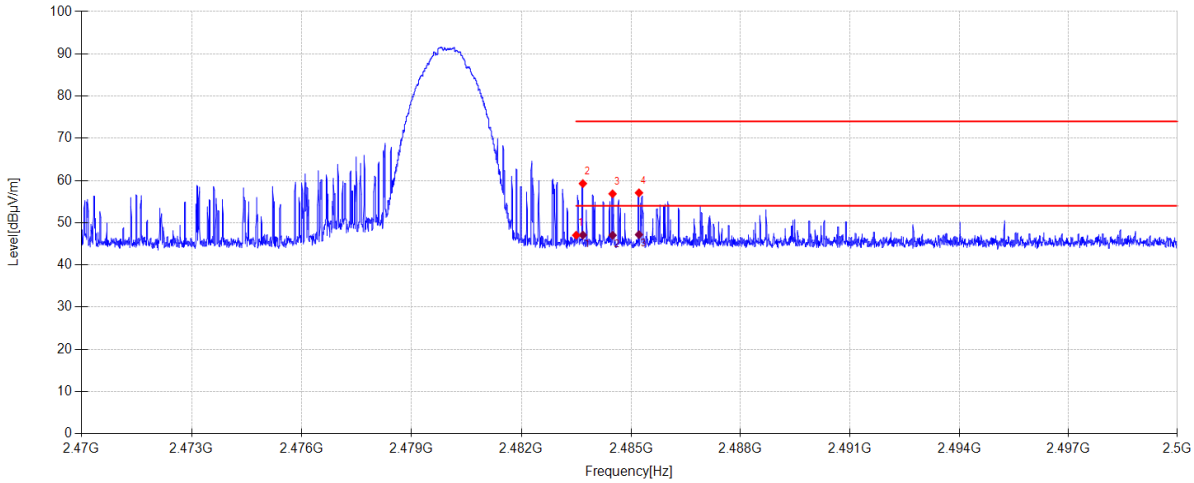
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2483.855	15.94	27.54	3.62	47.10	54.00	6.90	AV	Vertical
2	2484.735	15.95	27.54	3.62	47.11	54.00	6.89	AV	Vertical

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX 2DH5 2480 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\9		
Memo:	Sample Numble:S24071103		

Test Graph



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	15.88	27.53	3.62	0.00	47.03	74.00	26.97	PK	Horizontal
2	2483.683	28.13	27.53	3.62	0.00	59.28	74.00	14.72	PK	Horizontal
3	2484.496	25.69	27.54	3.62	0.00	56.85	74.00	17.15	PK	Horizontal
4	2485.219	25.92	27.54	3.62	0.00	57.08	74.00	16.92	PK	Horizontal

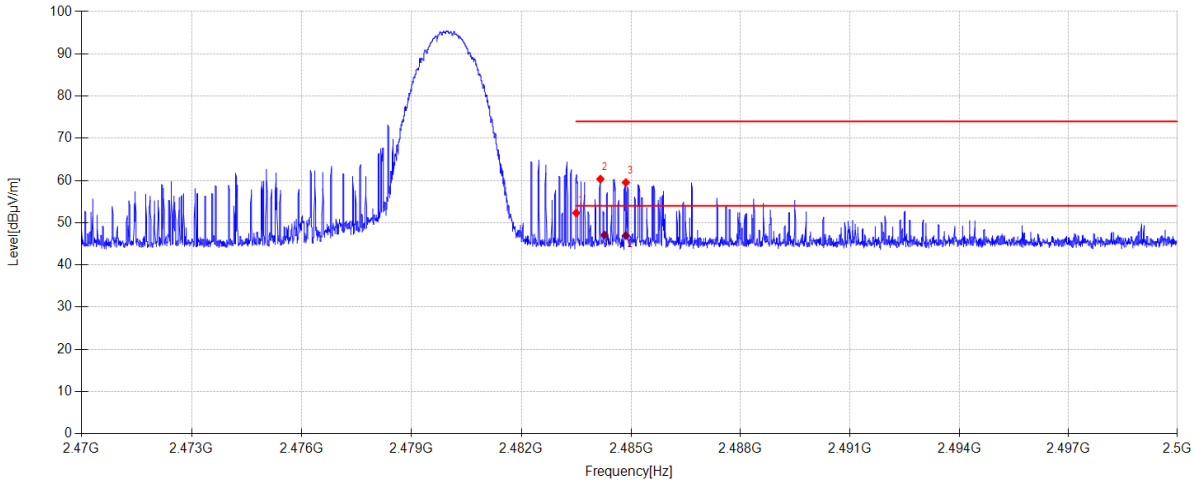
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2483.683	15.92	27.53	3.62	47.07	54.00	6.93	AV	Horizontal
2	2484.496	15.86	27.54	3.62	47.02	54.00	6.98	AV	Horizontal
3	2485.219	16.02	27.54	3.62	47.18	54.00	6.82	AV	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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX 2DH5 2480 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\10		
Memo:	Sample Numble:S24071103		

Test Graph



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	21.16	27.53	3.62	0.00	52.31	74.00	21.69	PK	Vertical
2	2484.163	29.18	27.54	3.62	0.00	60.34	74.00	13.66	PK	Vertical
3	2484.859	28.37	27.54	3.62	0.00	59.53	74.00	14.47	PK	Vertical

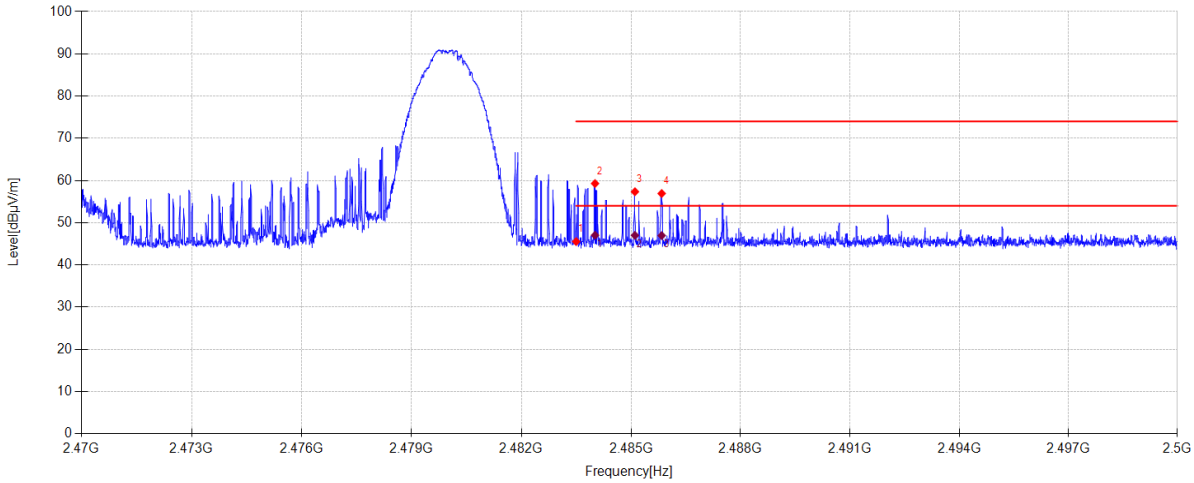
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2484.275	15.92	27.54	3.62	47.08	54.00	6.92	AV	Vertical
2	2484.859	15.80	27.54	3.62	46.96	54.00	7.04	AV	Vertical

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX 3DH5 2480 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\11		
Memo:	Sample Numble:S24071103		

Test Graph



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	14.39	27.53	3.62	0.00	45.54	74.00	28.46	PK	Horizontal
2	2484.016	28.13	27.54	3.62	0.00	59.29	74.00	14.71	PK	Horizontal
3	2485.108	26.18	27.54	3.62	0.00	57.34	74.00	16.66	PK	Horizontal
4	2485.840	25.76	27.54	3.62	0.00	56.92	74.00	17.08	PK	Horizontal

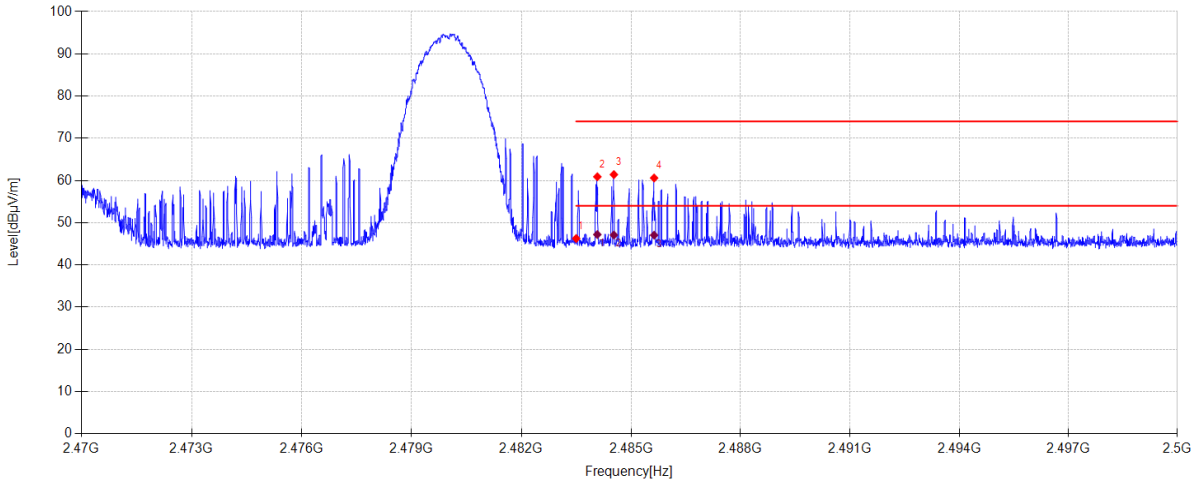
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2484.016	15.88	27.54	3.62	47.04	54.00	6.96	AV	Horizontal
2	2485.108	15.84	27.54	3.62	47.00	54.00	7.00	AV	Horizontal
3	2485.840	15.79	27.54	3.62	46.95	54.00	7.05	AV	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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX 3DH5 2480 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\12		
Memo:	Sample Numble:S24071103		

Test Graph



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	15.11	27.53	3.62	0.00	46.26	74.00	27.74	PK	Vertical
2	2484.079	29.72	27.54	3.62	0.00	60.88	74.00	13.12	PK	Vertical
3	2484.532	30.25	27.54	3.62	0.00	61.41	74.00	12.59	PK	Vertical
4	2485.633	29.44	27.54	3.62	0.00	60.60	74.00	13.40	PK	Vertical

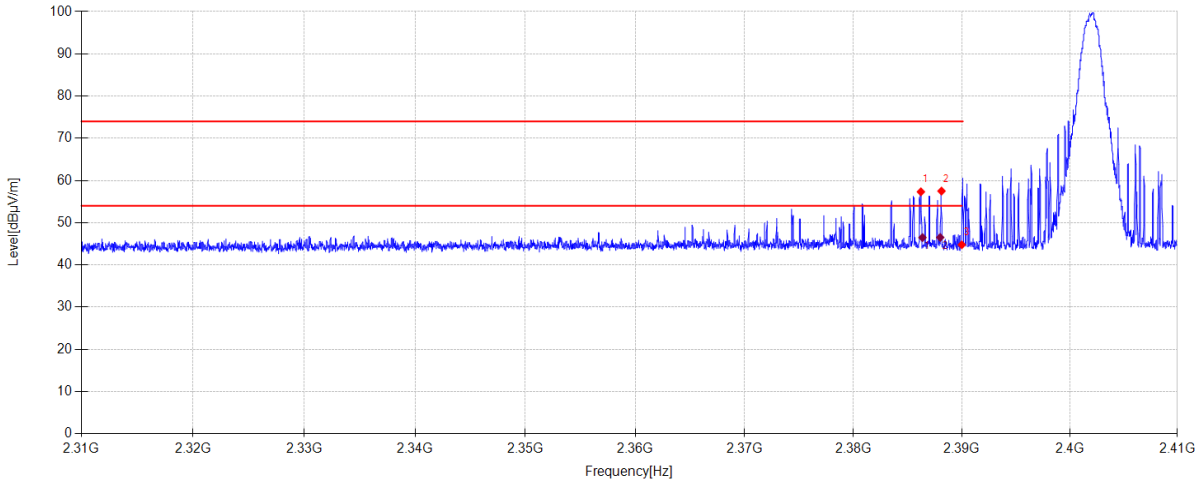
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2484.079	16.04	27.54	3.62	47.20	54.00	6.80	AV	Vertical
2	2484.532	15.93	27.54	3.62	47.09	54.00	6.91	AV	Vertical
3	2485.633	15.89	27.54	3.62	47.05	54.00	6.95	AV	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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX 3DH5 2402 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\13		
Memo:	Sample Numble:S24071103		

Test Graph



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	2386.220	26.51	27.24	3.57	0.00	57.32	74.00	16.68	PK	Horizontal
2	2388.120	26.68	27.25	3.57	0.00	57.50	74.00	16.50	PK	Horizontal
3	2390.000	13.95	27.26	3.57	0.00	44.78	74.00	29.22	PK	Horizontal

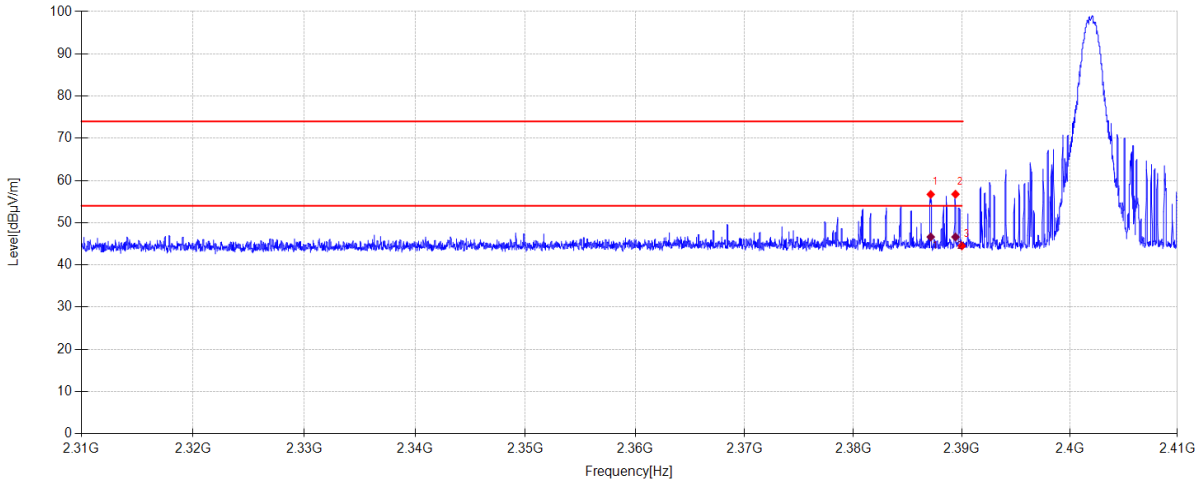
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2386.366	15.67	27.24	3.57	46.48	54.00	7.52	AV	Horizontal
2	2388.005	15.70	27.25	3.57	46.52	54.00	7.48	AV	Horizontal

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX 3DH5 2402 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\14		
Memo:	Sample Numble:S24071103		

Test Graph



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	2387.130	25.89	27.25	3.57	0.00	56.71	74.00	17.29	PK	Vertical
2	2389.410	25.92	27.26	3.57	0.00	56.75	74.00	17.25	PK	Vertical
3	2390.000	13.68	27.26	3.57	0.00	44.51	74.00	29.49	PK	Vertical

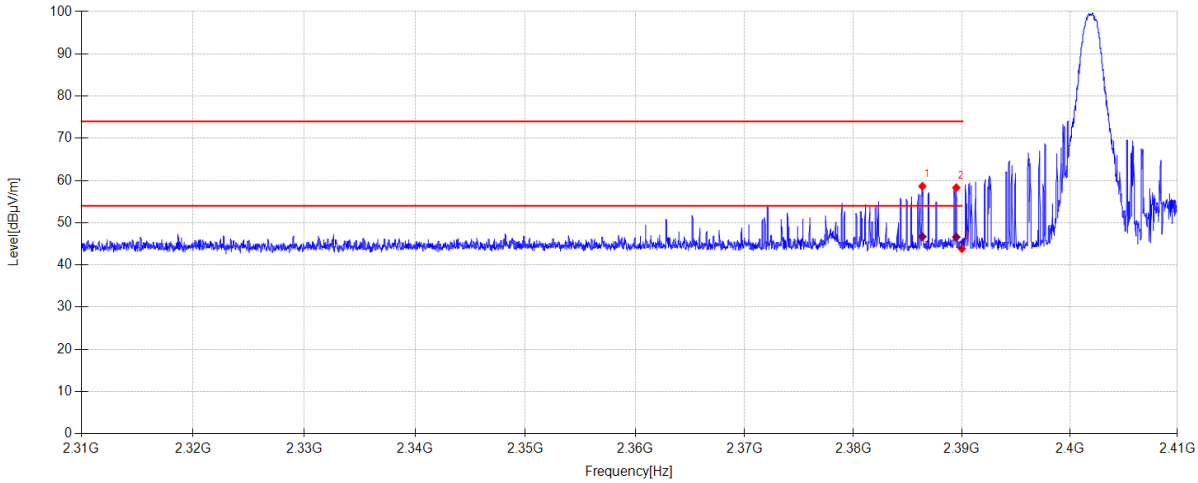
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2387.130	15.81	27.25	3.57	46.63	54.00	7.37	AV	Vertical
2	2389.410	15.79	27.26	3.57	46.62	54.00	7.38	AV	Vertical

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX 2DH5 2402 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\15		
Memo:	Sample Numble:S24071103		

Test Graph



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	2386.360	27.82	27.25	3.57	0.00	58.64	74.00	15.36	PK	Horizontal
2	2389.490	27.47	27.26	3.57	0.00	58.30	74.00	15.70	PK	Horizontal
3	2390.000	13.01	27.26	3.57	0.00	43.84	74.00	30.16	PK	Horizontal

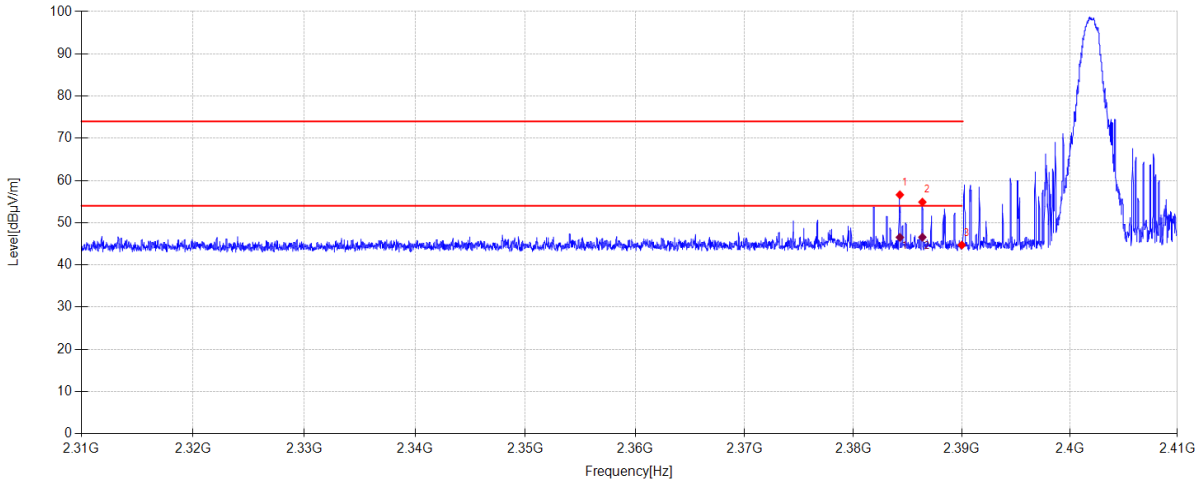
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2386.360	15.87	27.25	3.57	46.69	54.00	7.31	AV	Horizontal
2	2389.490	15.78	27.26	3.57	46.61	54.00	7.39	AV	Horizontal

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX 2DH5 2402 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\16		
Memo:	Sample Numble:S24071103		

Test Graph



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	2384.280	25.80	27.24	3.57	0.00	56.61	74.00	17.39	PK	Vertical
2	2386.360	24.07	27.25	3.57	0.00	54.89	74.00	19.11	PK	Vertical
3	2390.000	13.88	27.26	3.57	0.00	44.71	74.00	29.29	PK	Vertical

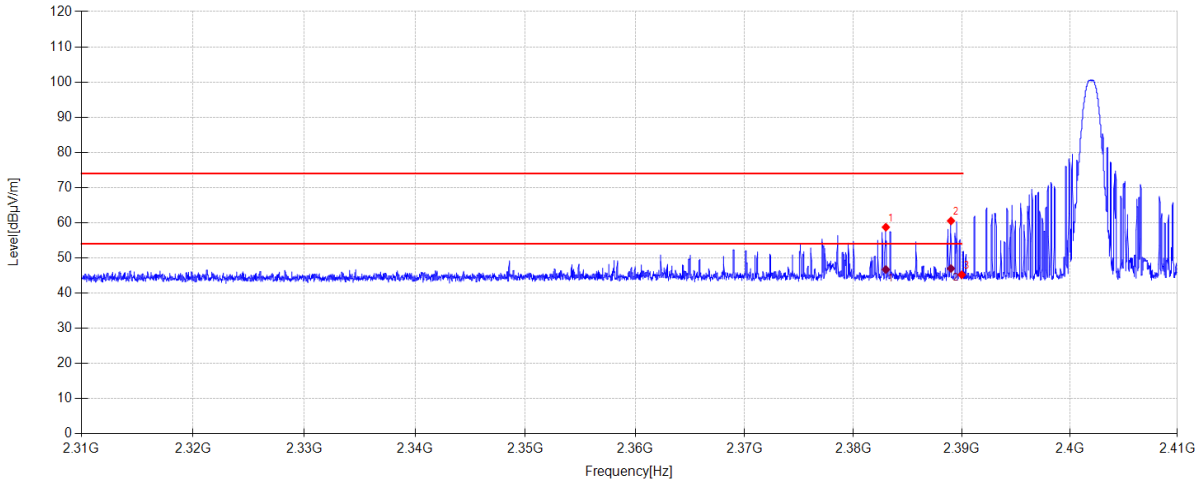
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2384.280	15.72	27.24	3.57	46.53	54.00	7.47	AV	Vertical
2	2386.360	15.74	27.25	3.57	46.56	54.00	7.44	AV	Vertical

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2402 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\17		
Memo:	Sample Numble:S24071103		

Test Graph



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	2382.990	27.93	27.23	3.56	0.00	58.72	74.00	15.28	PK	Horizontal
2	2389.000	29.69	27.26	3.57	0.00	60.52	74.00	13.48	PK	Horizontal
3	2390.000	14.38	27.26	3.57	0.00	45.21	74.00	28.79	PK	Horizontal

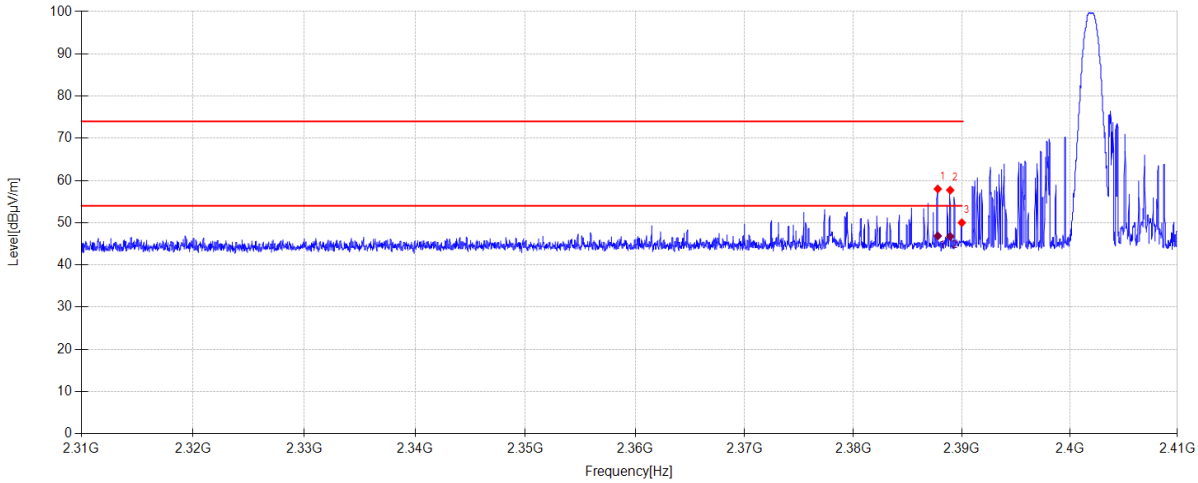
Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Antenna Factor [dB]**	**Cable loss [dB]**	**Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**	**Detector**	**Polarity**
1	2382.990	15.89	27.23	3.56	46.68	54.00	7.32	AV	Horizontal
2	2389.000	16.15	27.26	3.57	46.98	54.00	7.02	AV	Horizontal

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:	2025-02-22	**Tested By**:	Guoyuan Lin
EUT:	WEATHERPROOF MEDIA RECEIVER w/4" LCD DISPLAY	**Model Number**:	MRB4
Test Mode:	TX DH5 2402 MHz Mode	**Power Supply**:	DC 12V
Condition:	Temp:24.1°C;Humi:49.4%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2025 report date\Q24071103-1E\FCC Above 1G BT\18		
Memo:	Sample Numble:S24071103		

Test Graph



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	2387.780	27.18	27.25	3.57	0.00	58.00	74.00	16.00	PK	Vertical
2	2388.930	26.89	27.26	3.57	0.00	57.72	74.00	16.28	PK	Vertical
3	2390.000	19.17	27.26	3.57	0.00	50.00	74.00	23.00	PK	Vertical

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	2387.780	16.04	27.25	3.57	46.86	54.00	7.14	AV	Vertical
2	2388.930	15.92	27.26	3.57	46.75	54.00	7.25	AV	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.

17. Photos of the EUT

Please refer to DDT-Q24071103-2E appendix Ⅰ

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