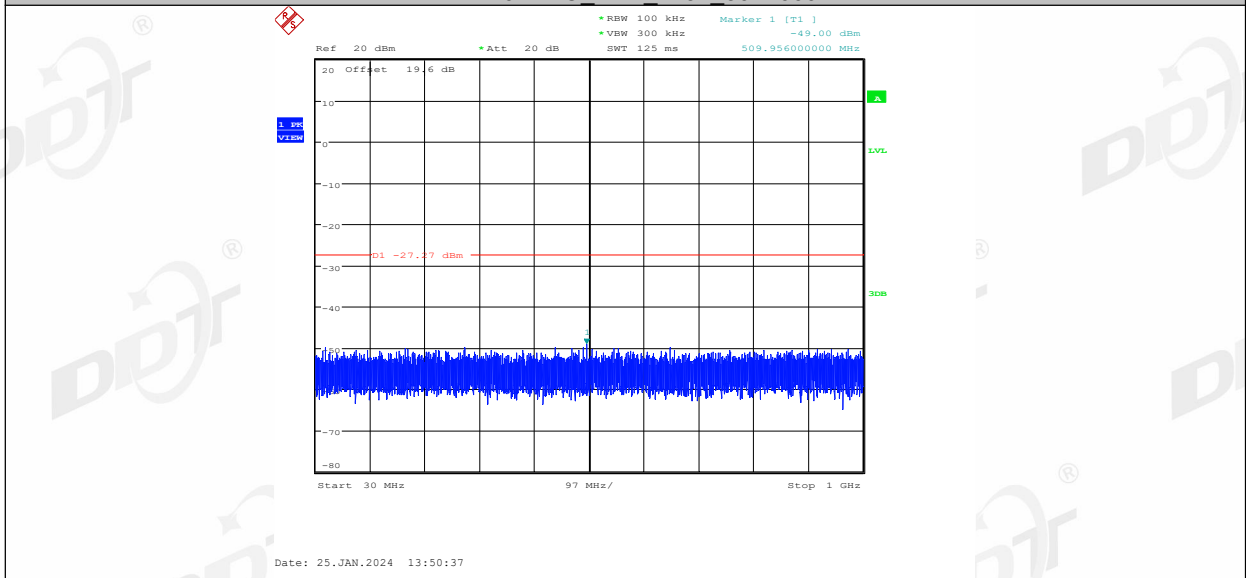
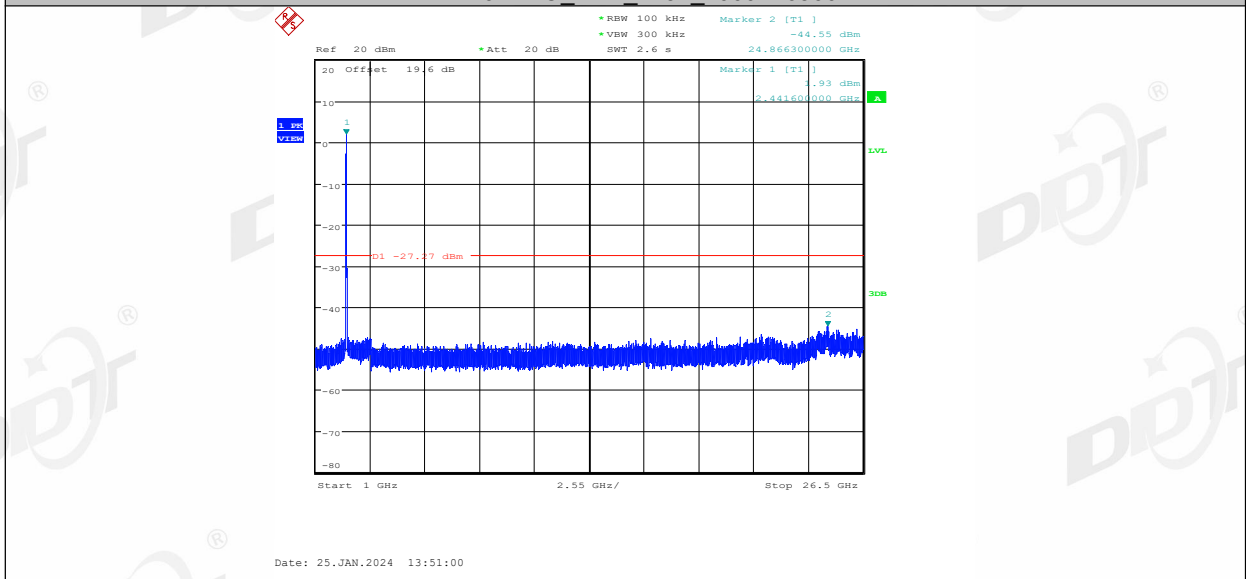


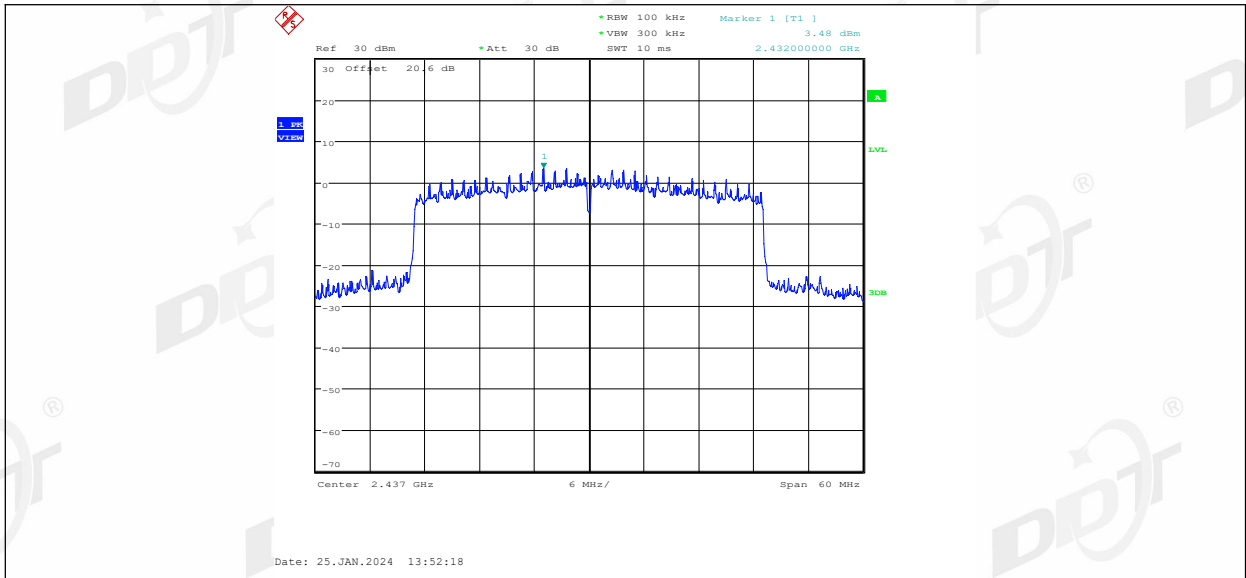
11AX40MIMO_Ant1_2437_30~1000



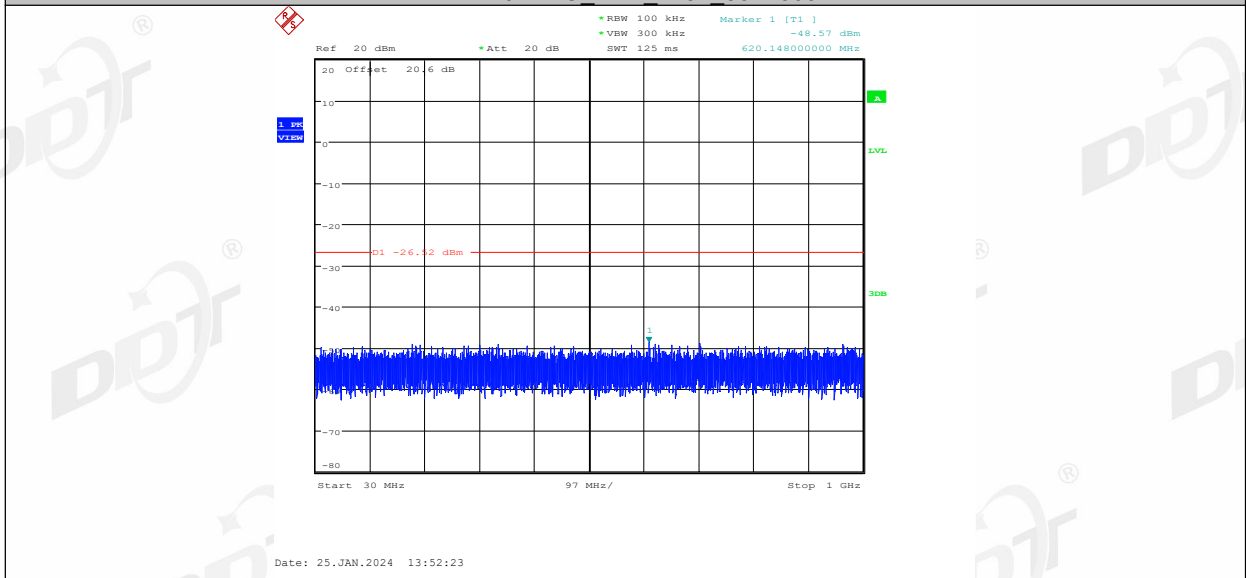
11AX40MIMO_Ant1_2437_1000~26500



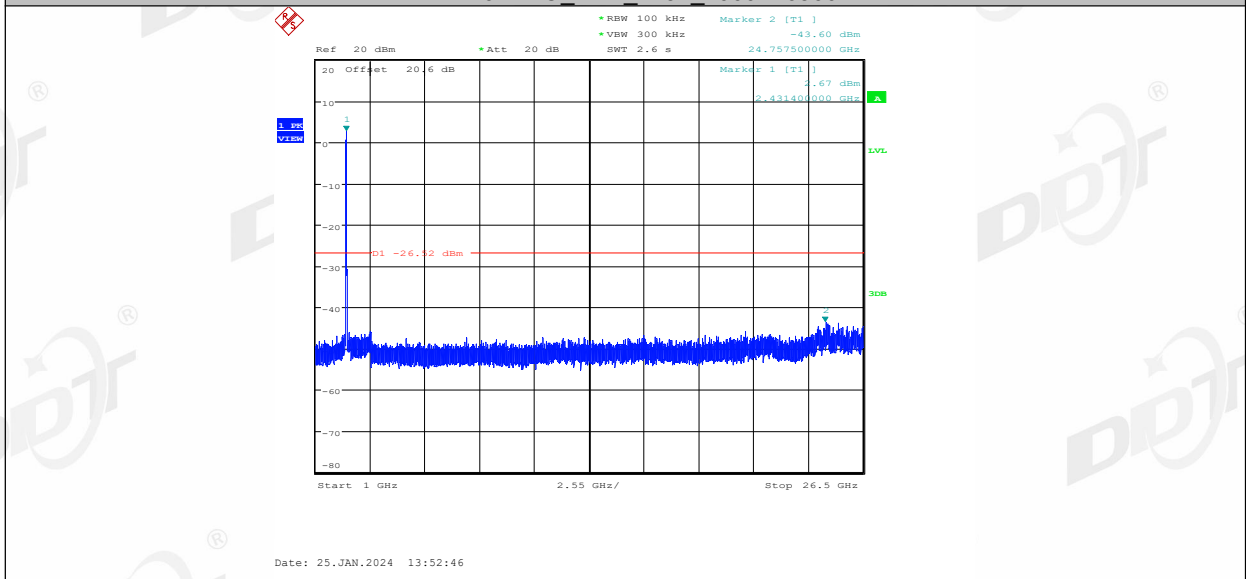
11AX40MIMO_Ant2_2437_0~Reference



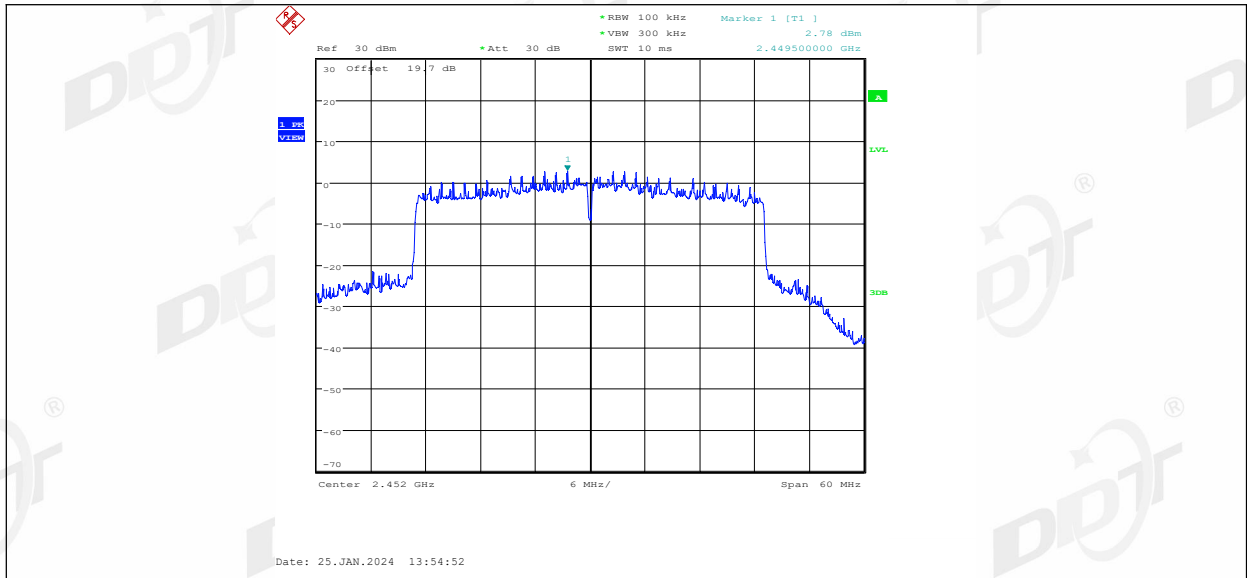
11AX40MIMO_Ant2_2437_30~1000



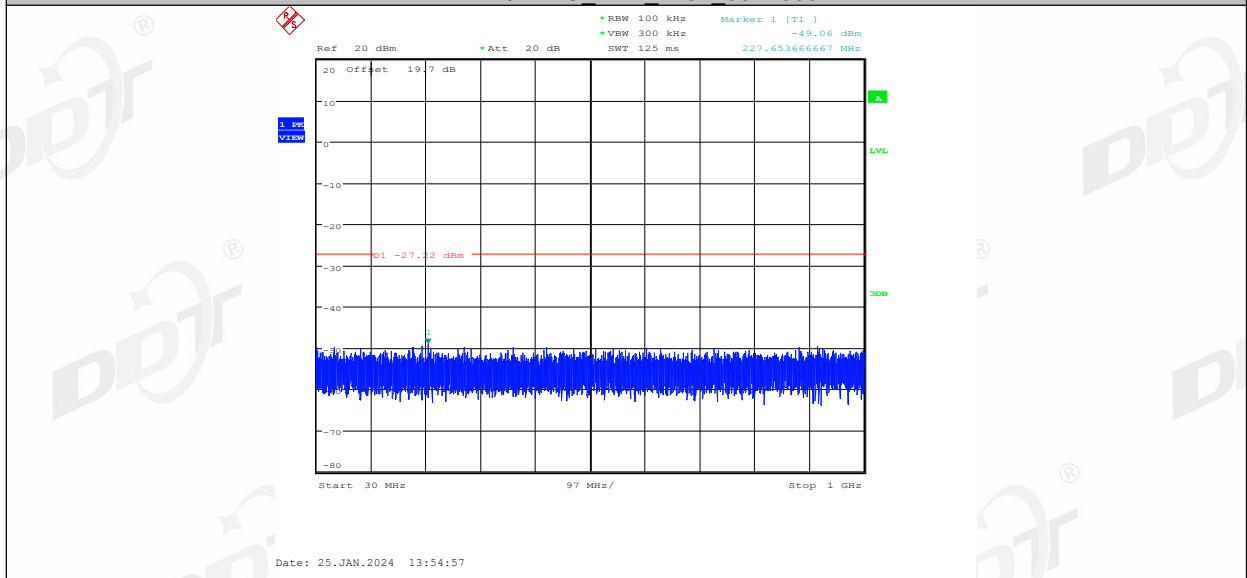
11AX40MIMO_Ant2_2437_1000~26500



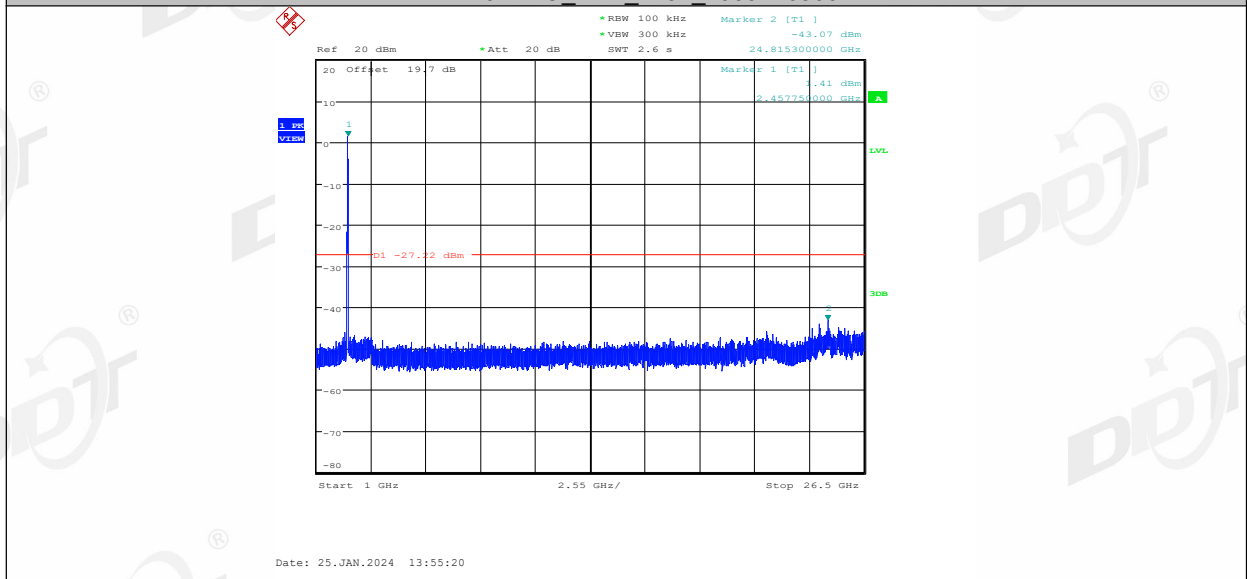
11AX40MIMO_Ant1_2452_0~Reference



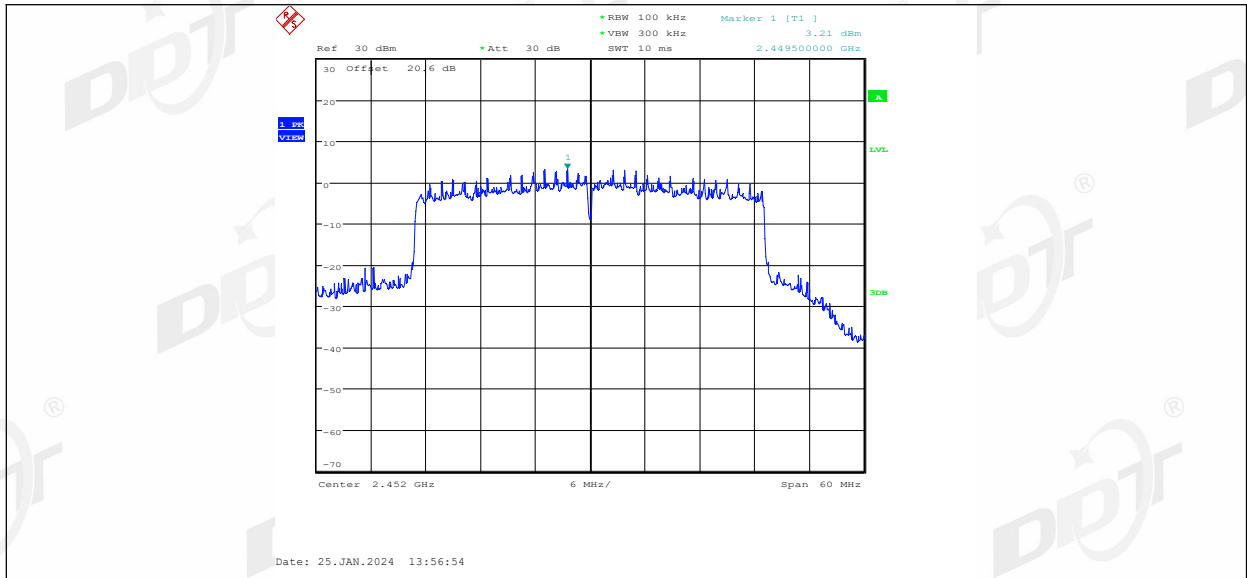
11AX40MIMO_Ant1_2452_30~1000



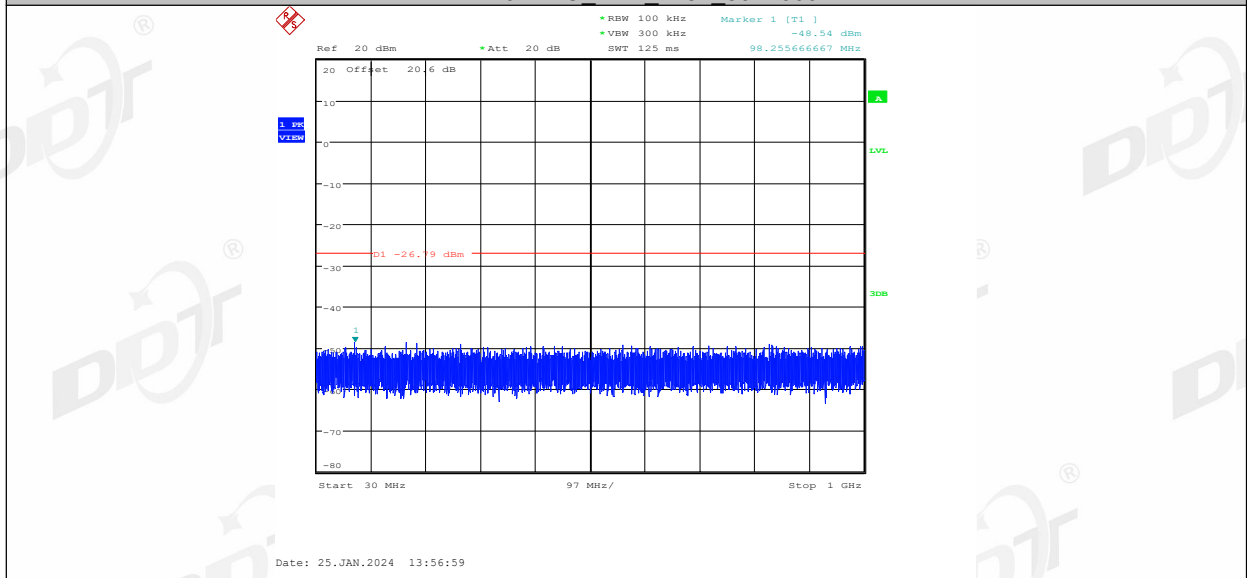
11AX40MIMO_Ant1_2452_1000~26500



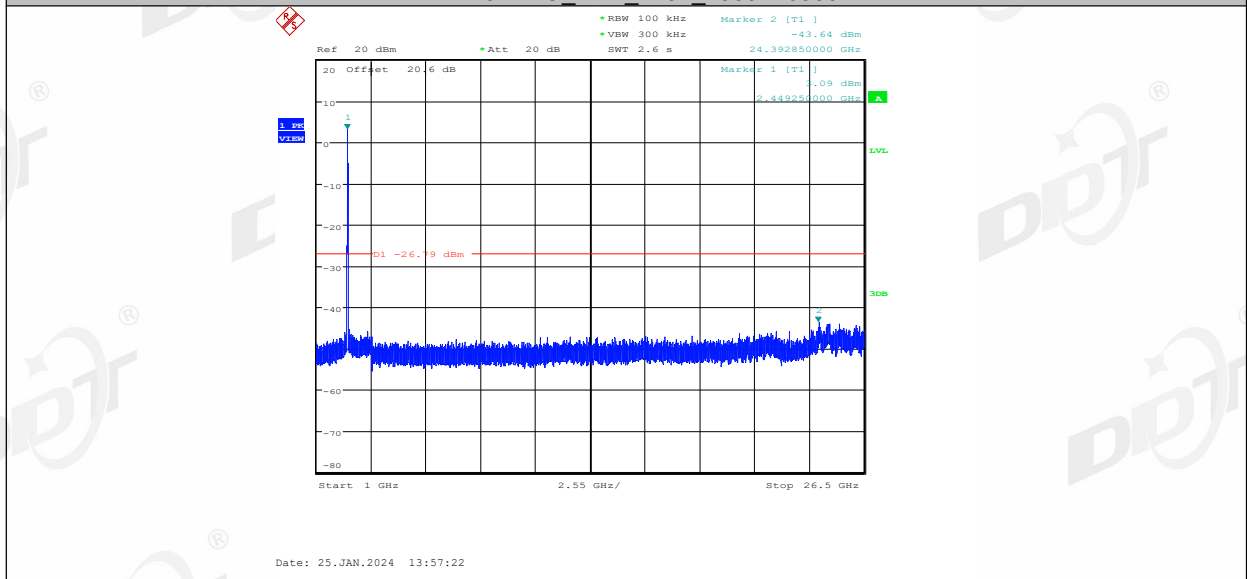
11AX40MIMO_Ant2_2452_0~Reference



11AX40MIMO Ant2 2452 30~1000

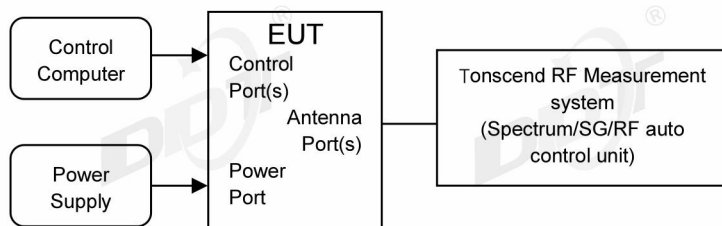


11AX40MIMO Ant2 2452 1000~26500



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

Sweep: Video Trigger

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:

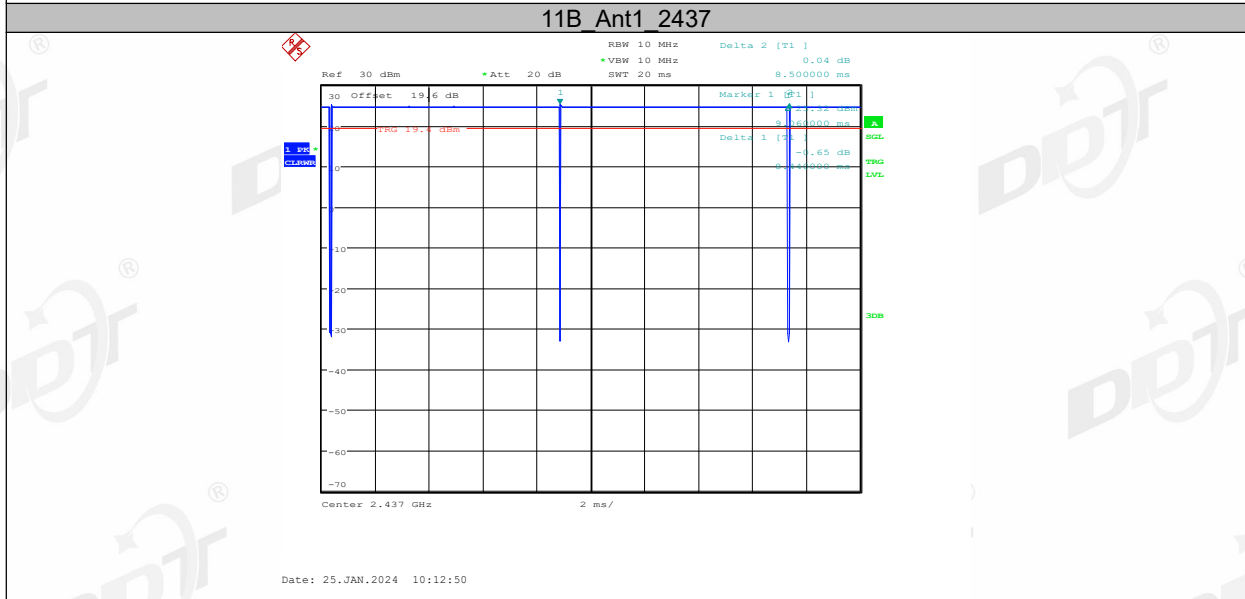
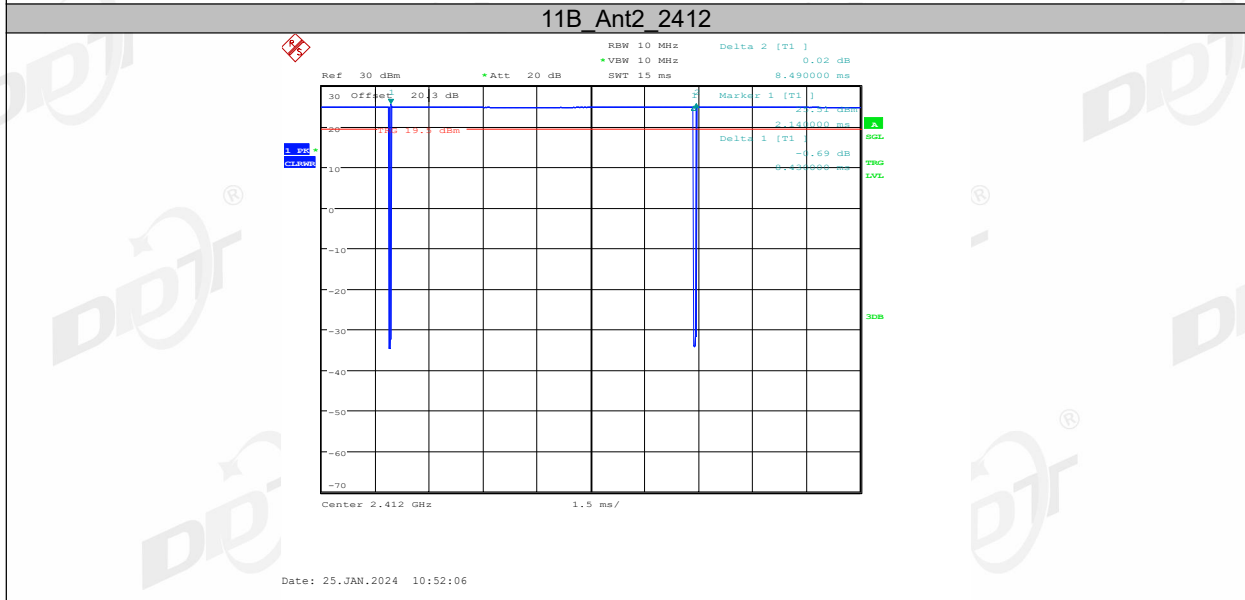
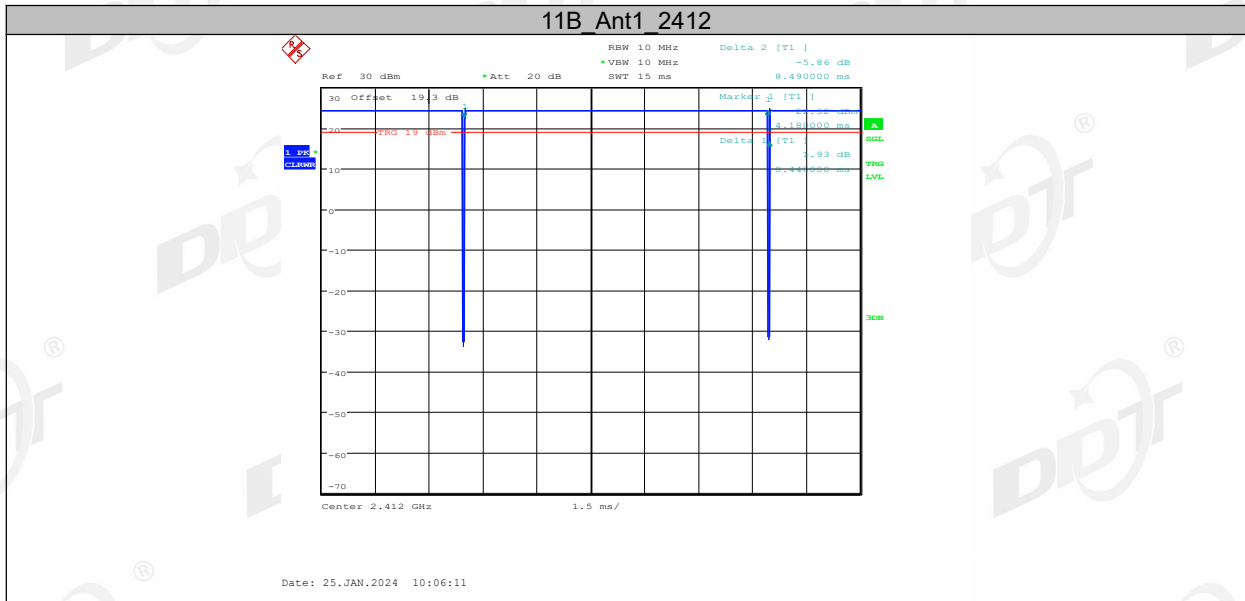
Duty cycle= Pulse's on time / Burst cycle

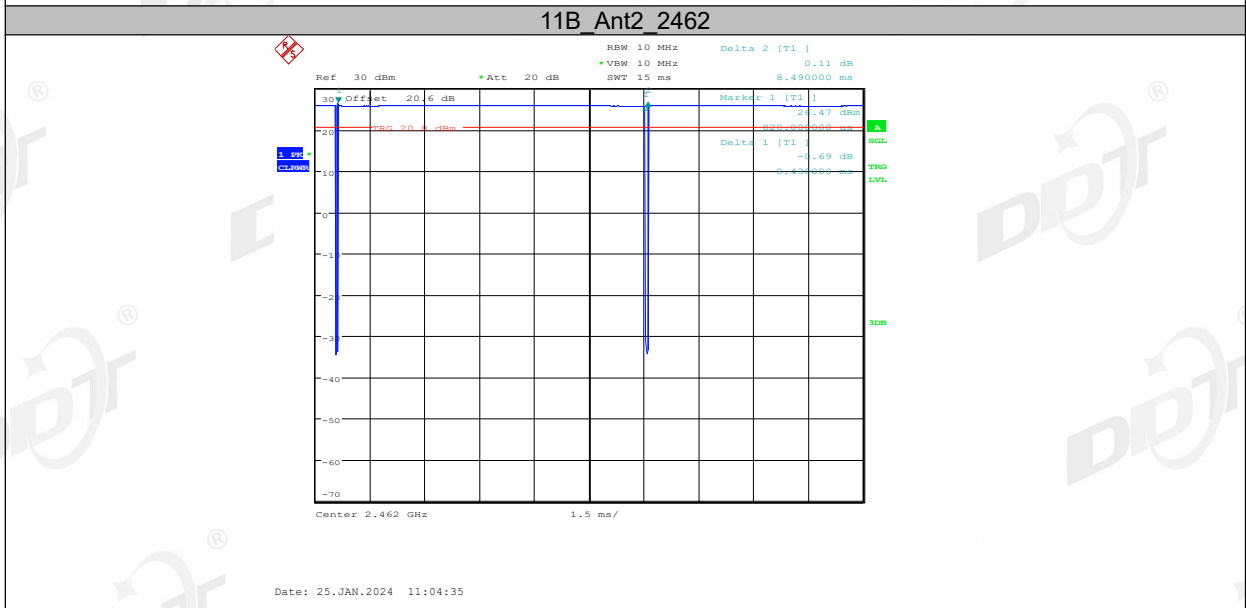
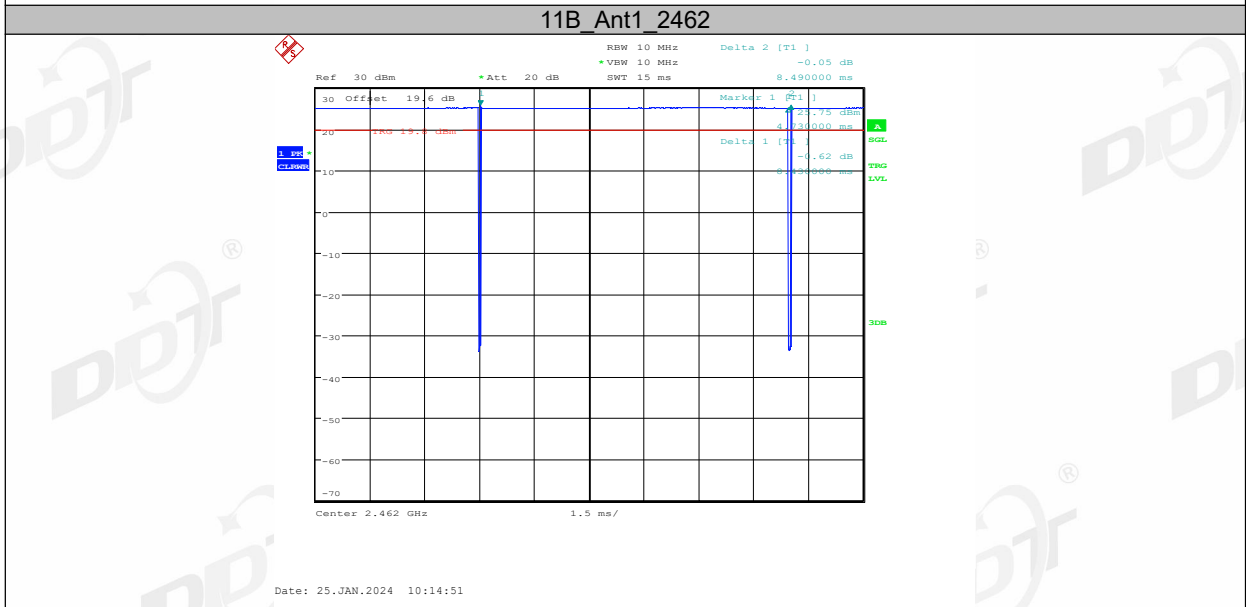
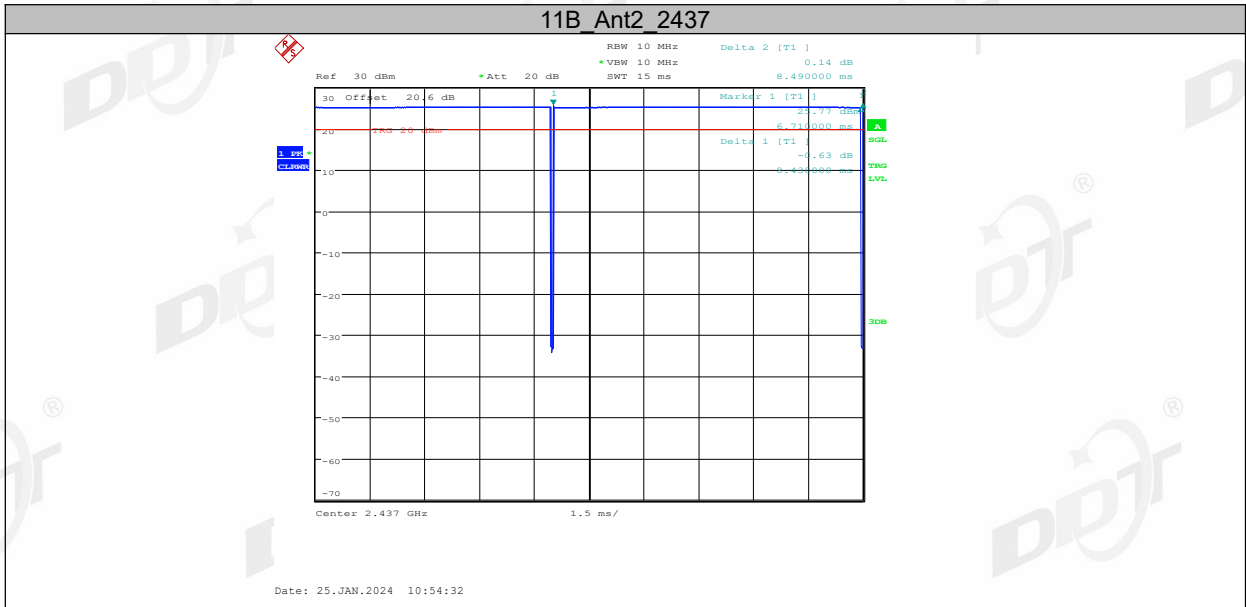
10.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	23.6°C,64%RH	Test Date:	2024.01.29-2024.02.02
Test Power Supply:	AC230V/50Hz	EUT:	Mercku M6s Nano Mesh Wi-Fi Router
Sample Number:	S23111605-01	Model No.:	MBAA0

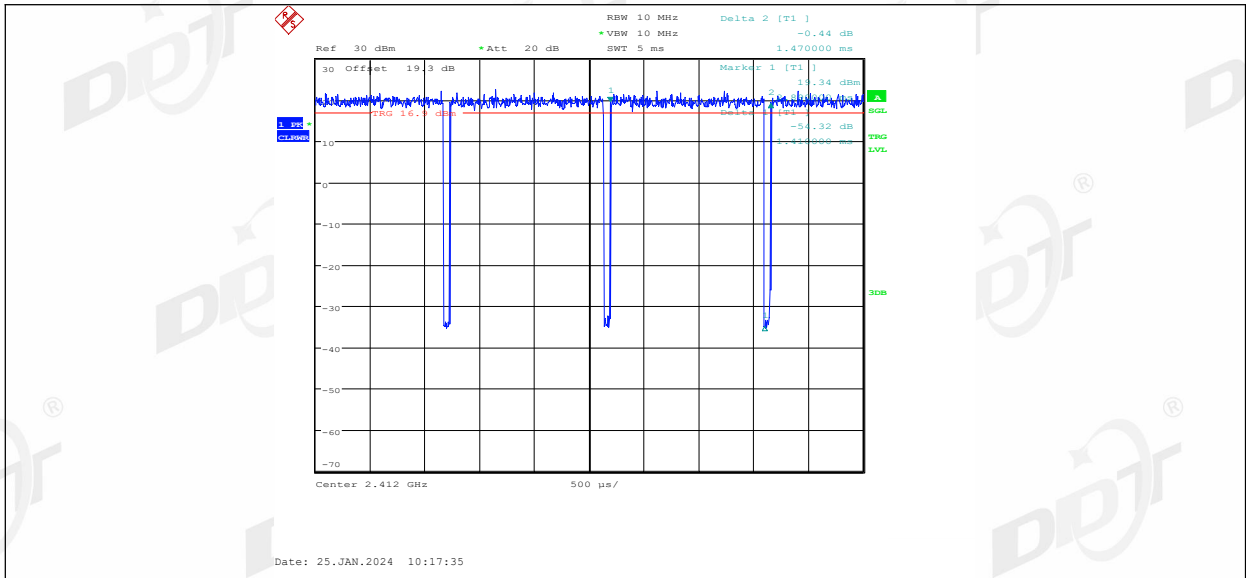
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.44	8.49	99.41
	Ant2	2412	8.43	8.49	99.29
	Ant1	2437	8.44	8.50	99.29
	Ant2	2437	8.43	8.49	99.29
	Ant1	2462	8.43	8.49	99.29
	Ant2	2462	8.43	8.49	99.29
11G	Ant1	2412	1.41	1.47	95.92
	Ant2	2412	1.40	1.46	95.89
	Ant1	2437	1.40	1.46	95.89
	Ant2	2437	1.40	1.46	95.89
	Ant1	2462	1.40	1.46	95.89
	Ant2	2462	1.41	1.47	95.92
11N20MIMO	Ant1	2412	0.68	0.74	91.89
	Ant2	2412	0.68	0.74	91.89
	Ant1	2437	0.68	0.74	91.89
	Ant2	2437	0.68	0.74	91.89
	Ant1	2462	0.68	0.74	91.89
	Ant2	2462	0.68	0.74	91.89
11N40MIMO	Ant1	2422	0.35	0.41	85.37
	Ant2	2422	0.35	0.41	85.37
	Ant1	2437	0.35	0.41	85.37
	Ant2	2437	0.35	0.41	85.37
	Ant1	2452	0.35	0.41	85.37
	Ant2	2452	0.35	0.41	85.37
11AX20MIMO	Ant1	2412	0.21	0.27	77.78
	Ant2	2412	0.21	0.27	77.78
	Ant1	2437	0.20	0.26	76.92
	Ant2	2437	0.21	0.27	77.78
	Ant1	2462	0.20	0.26	76.92
	Ant2	2462	0.21	0.27	77.78
11AX40MIMO	Ant1	2422	0.32	0.38	84.21
	Ant2	2422	0.32	0.38	84.21
	Ant1	2437	0.32	0.38	84.21
	Ant2	2437	0.32	0.38	84.21
	Ant1	2452	0.32	0.38	84.21
	Ant2	2452	0.32	0.38	84.21

10.5. Test graphs

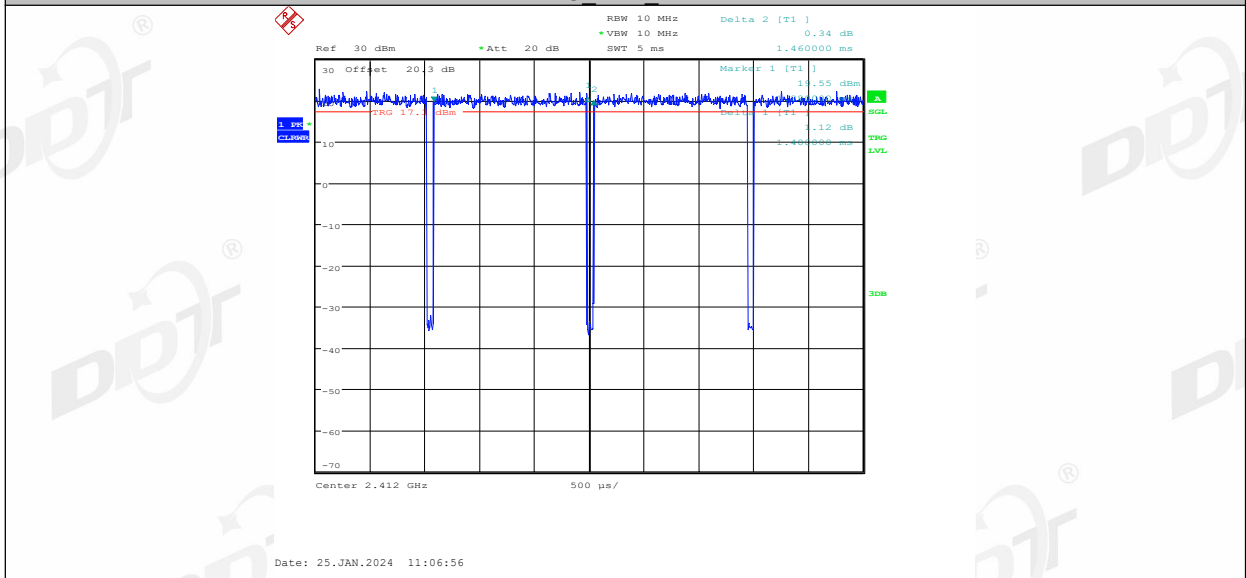




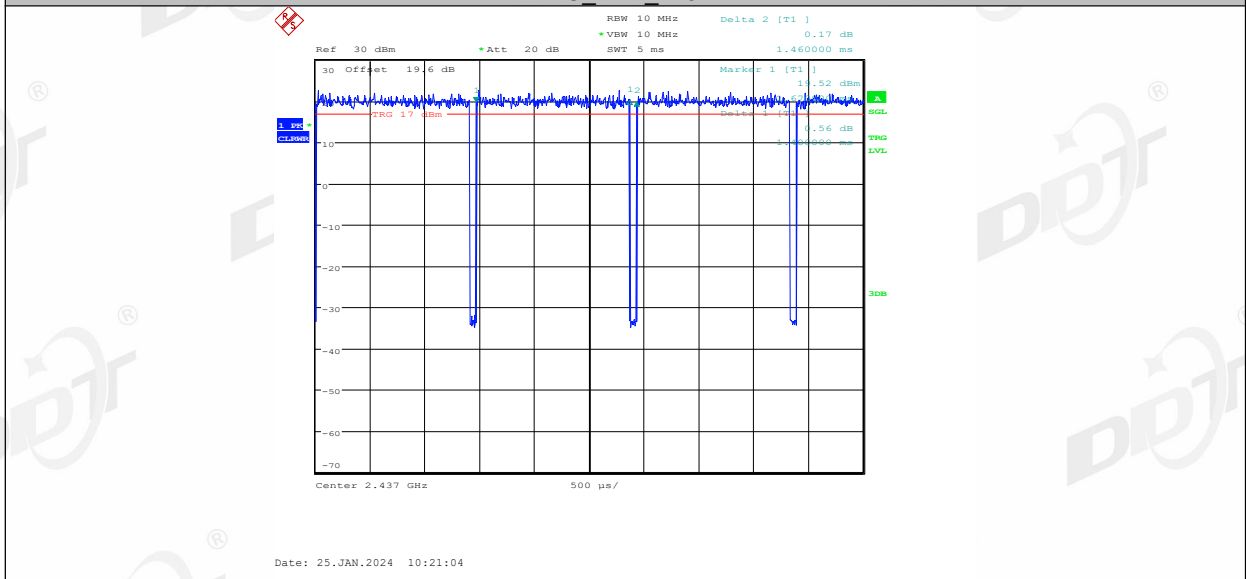
11G_Ant1_2412



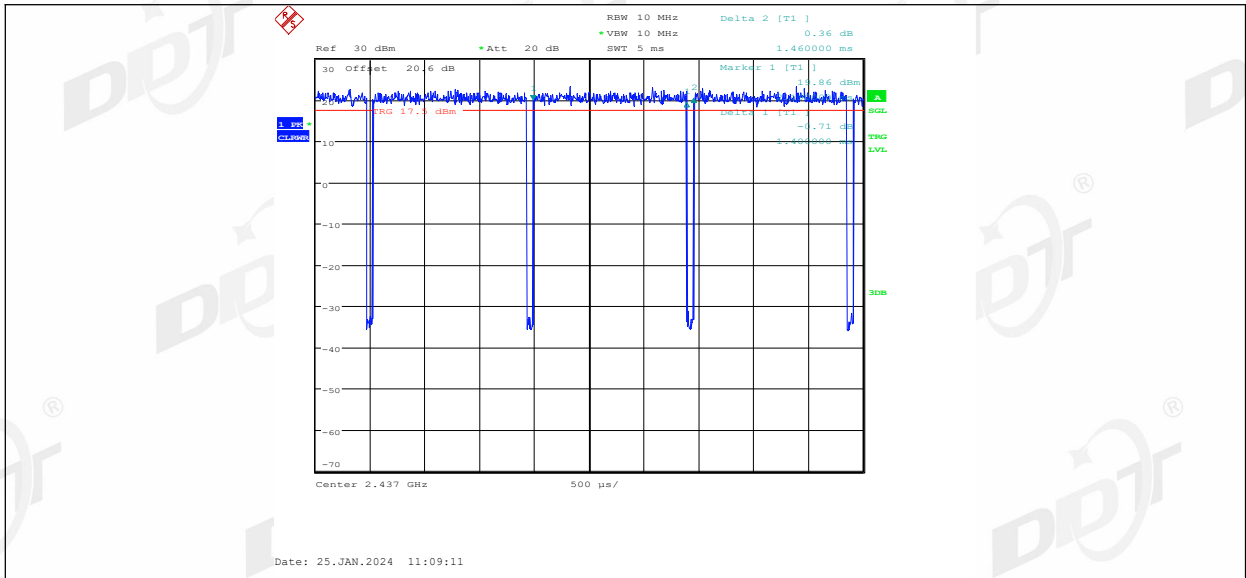
11G Ant2_2412



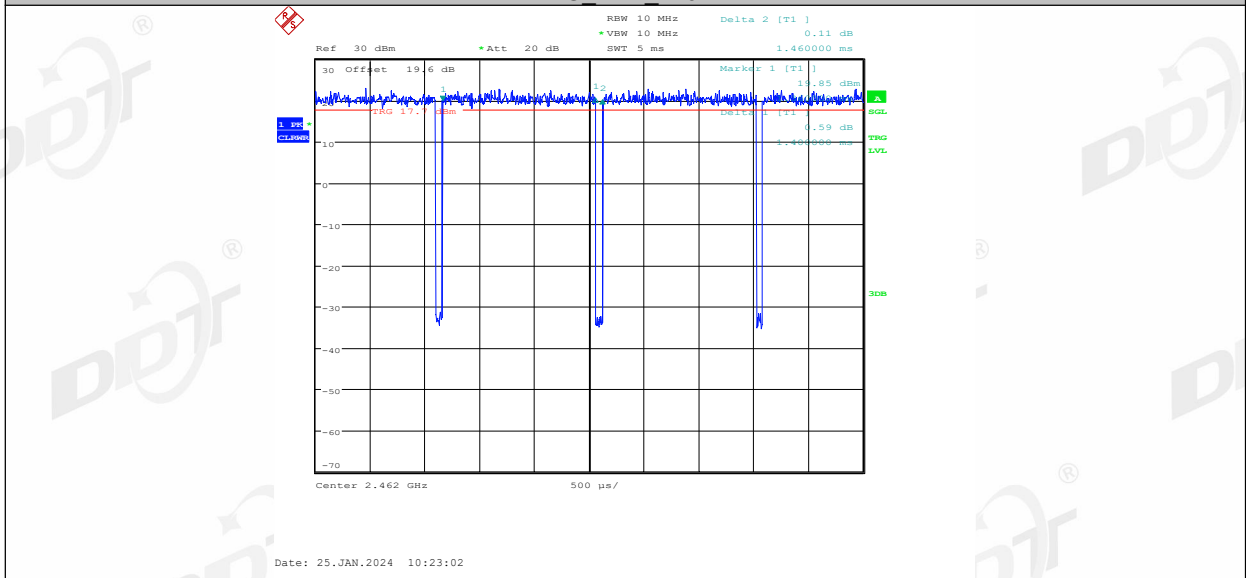
11G Ant1_2437



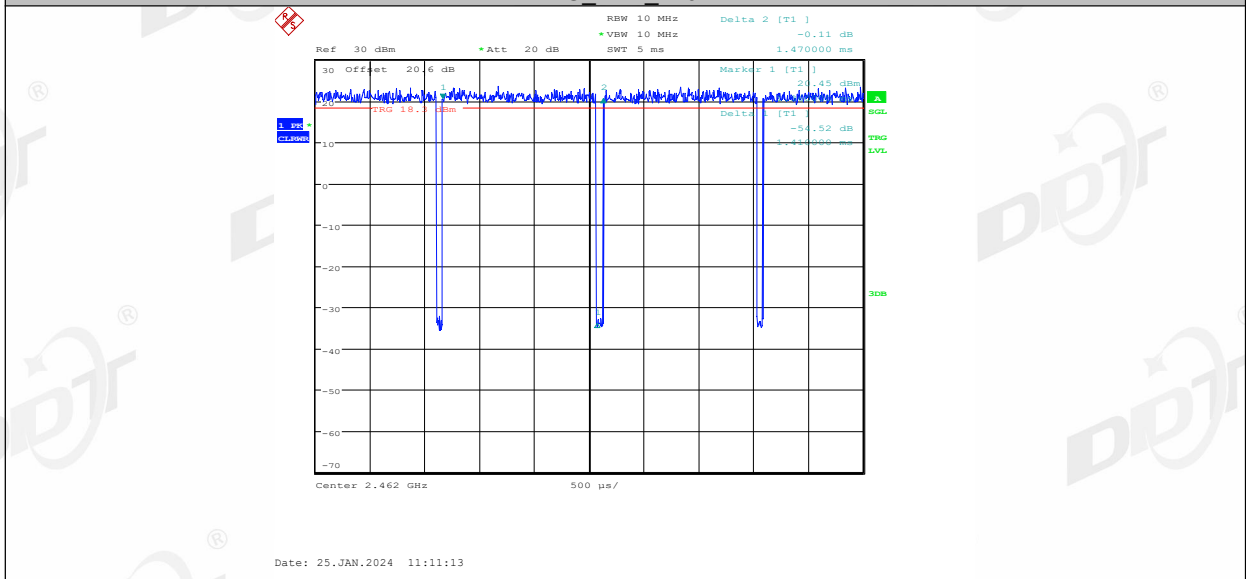
11G Ant2_2437



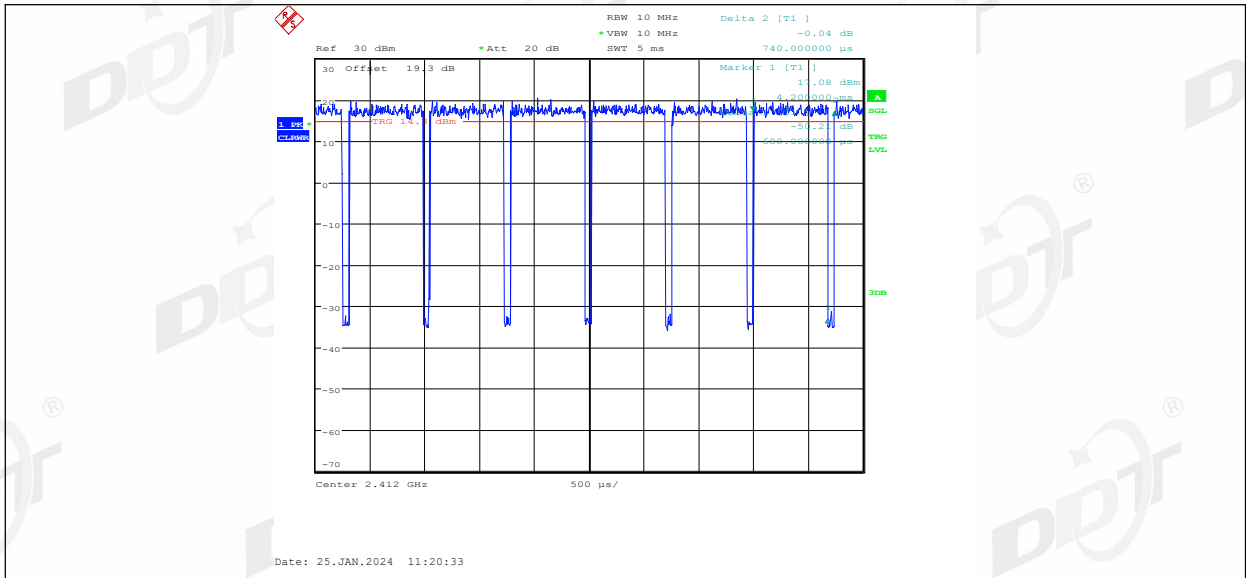
11G Ant1_2462



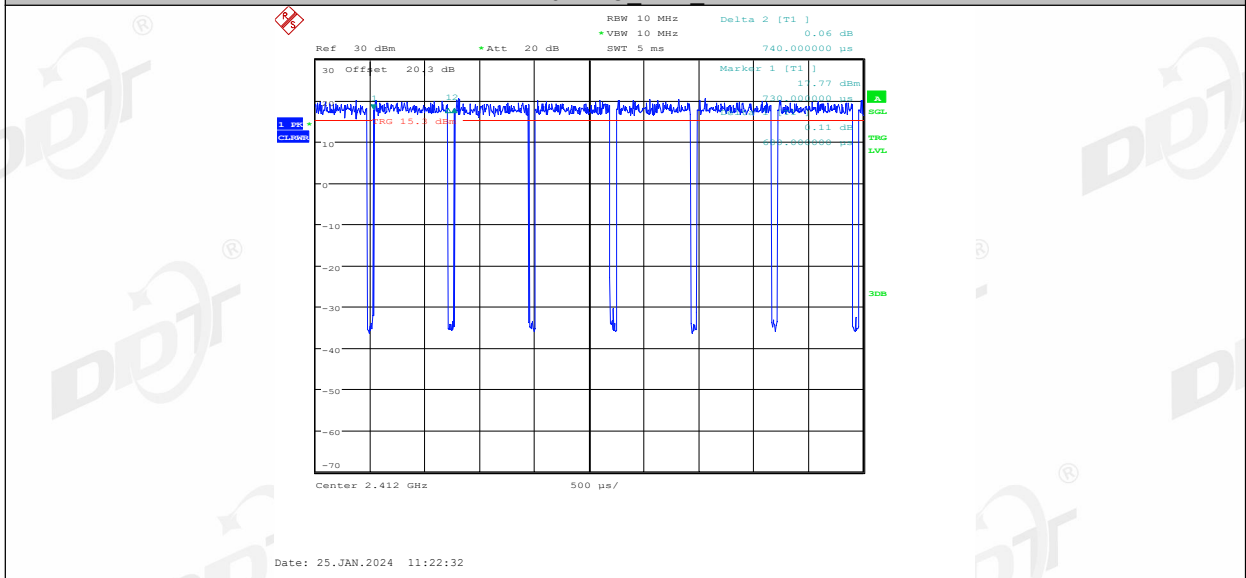
11G Ant2_2462



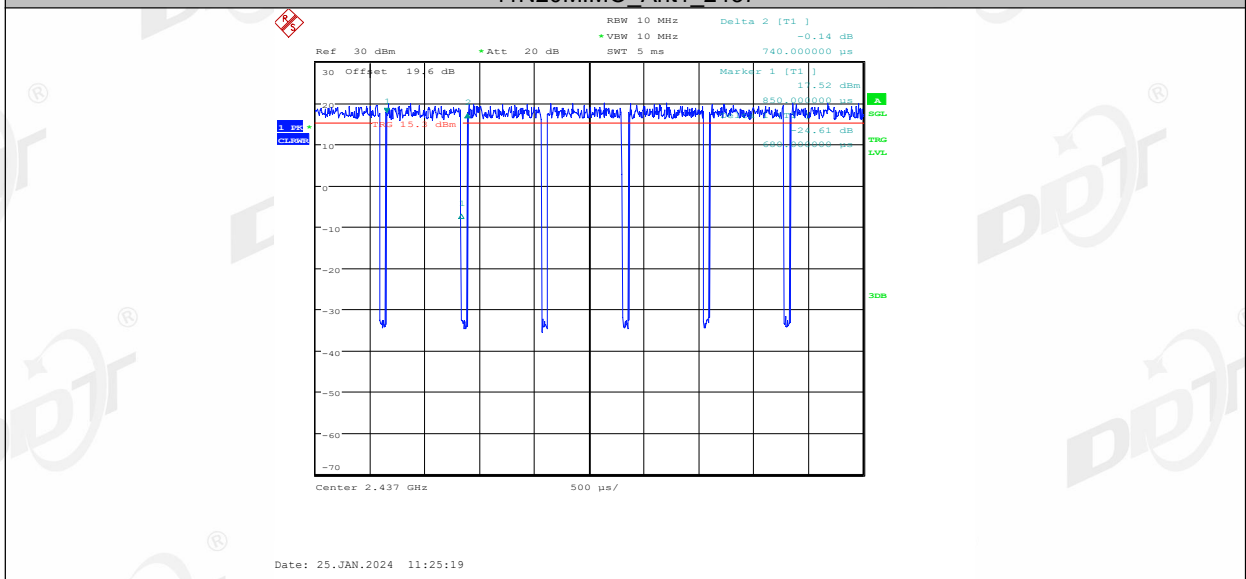
11N20MIMO Ant1_2412



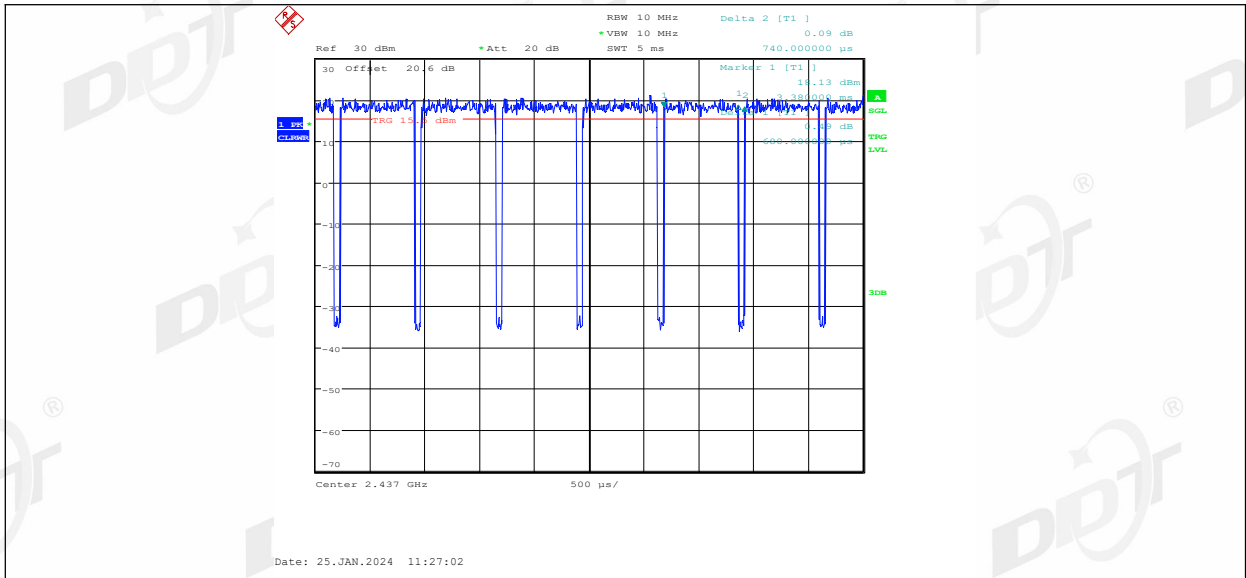
11N20MIMO_Ant2_2412



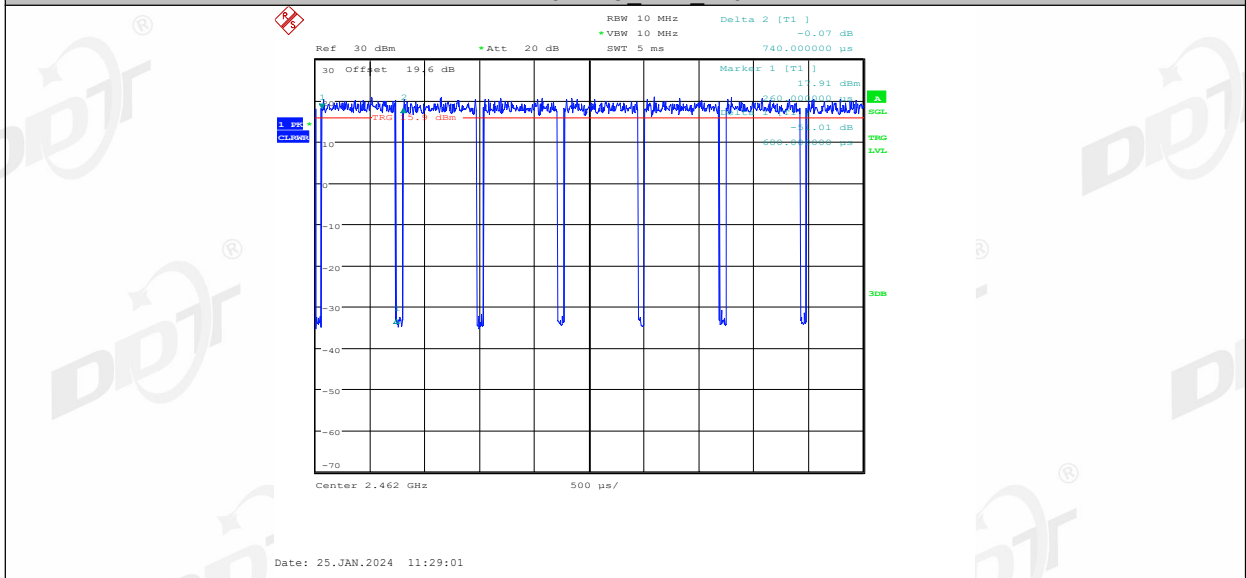
11N20MIMO_Ant1_2437



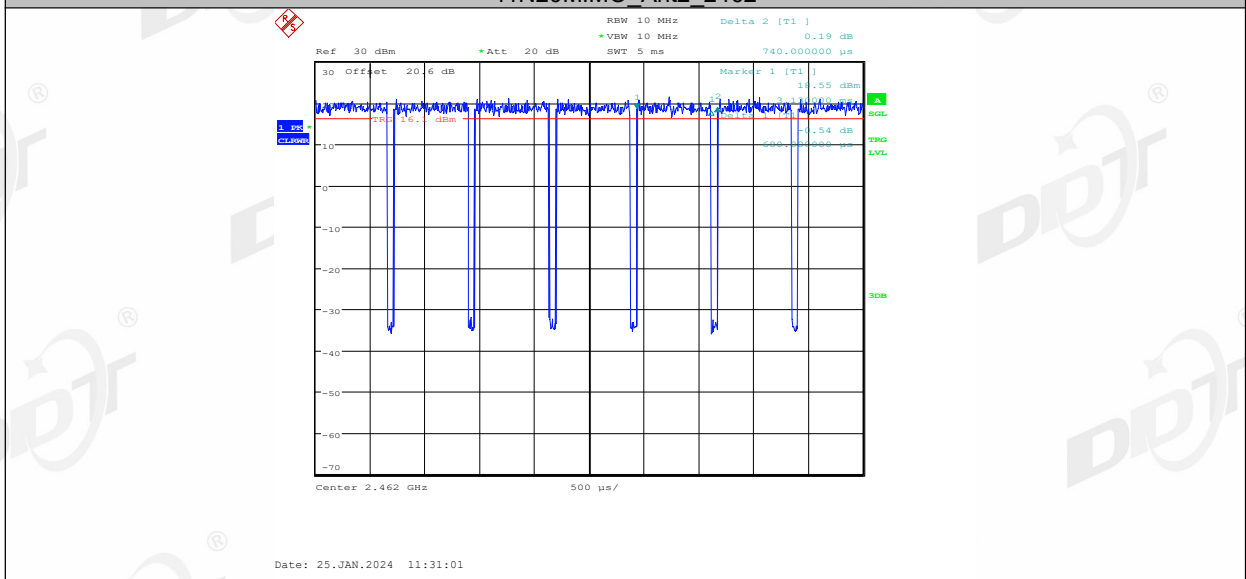
11N20MIMO_Ant2_2437



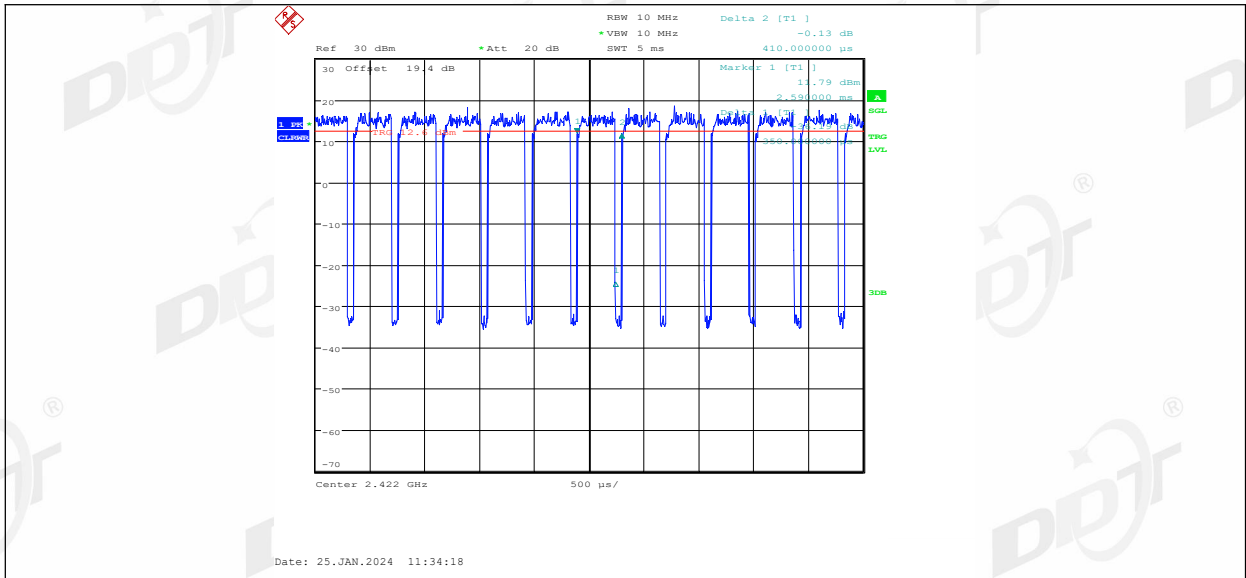
11N20MIMO_Ant1_2462



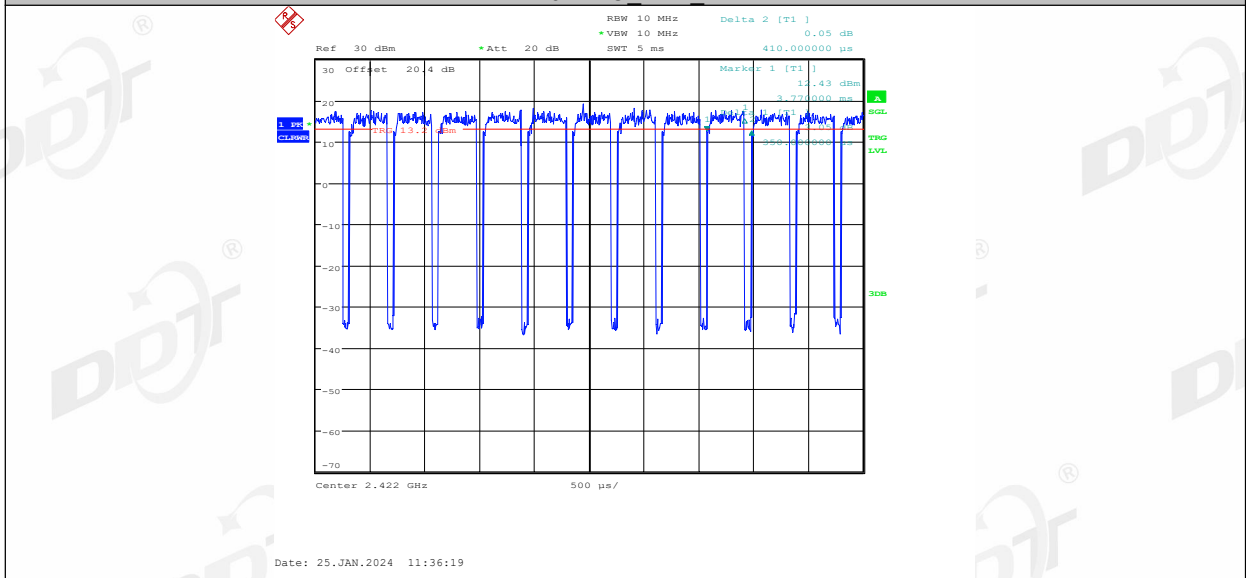
11N20MIMO_Ant2_2462



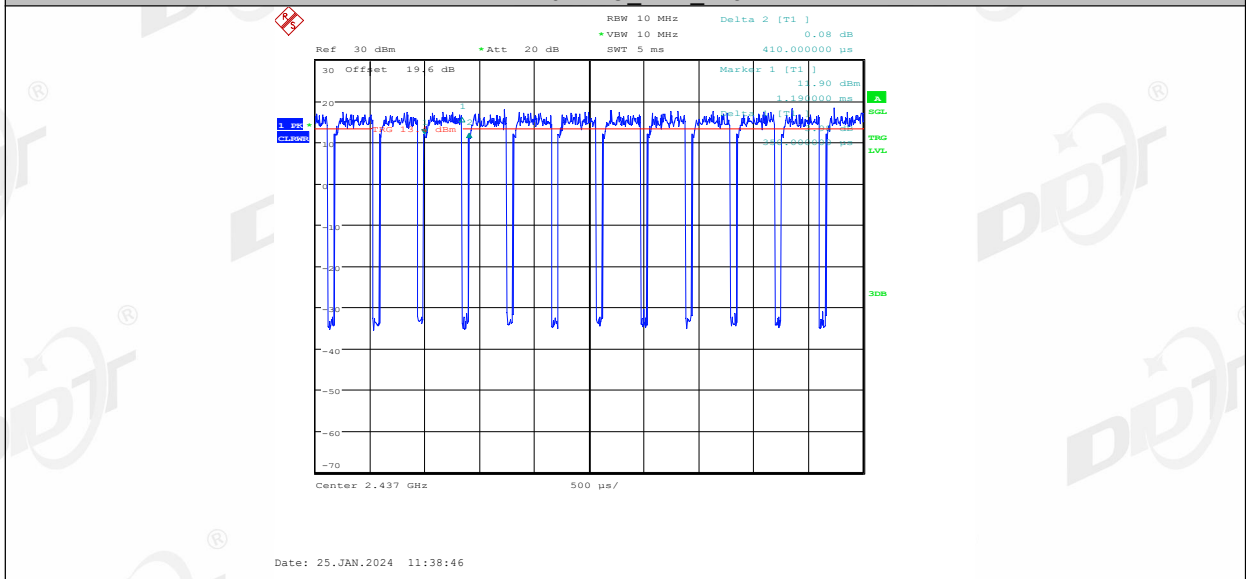
11N40MIMO_Ant1_2422



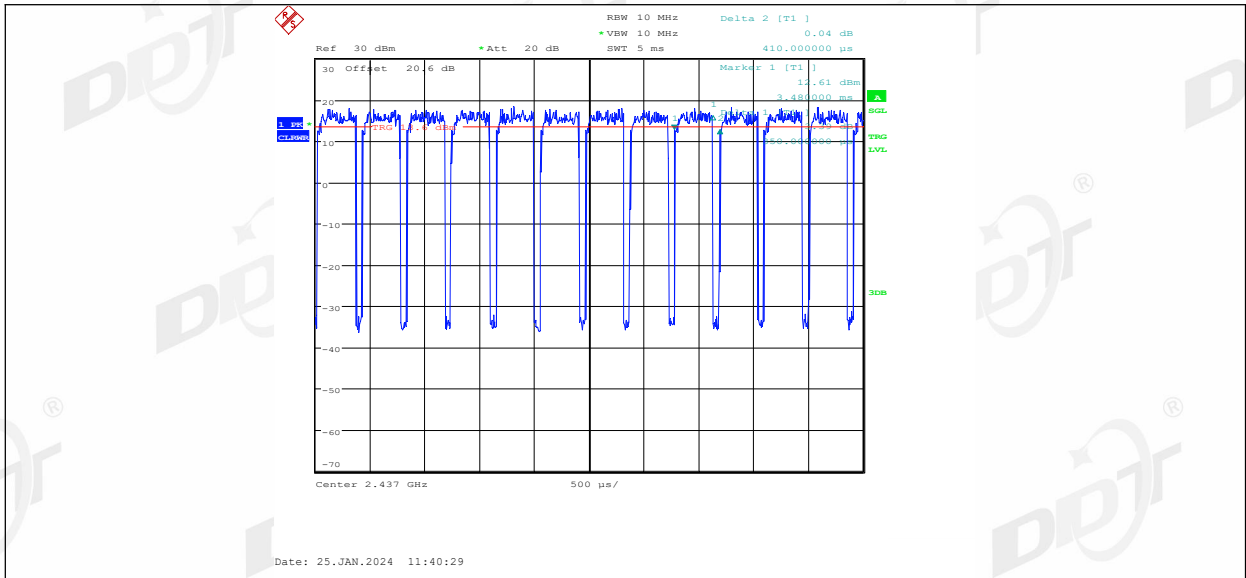
11N40MIMO_Ant2_2422



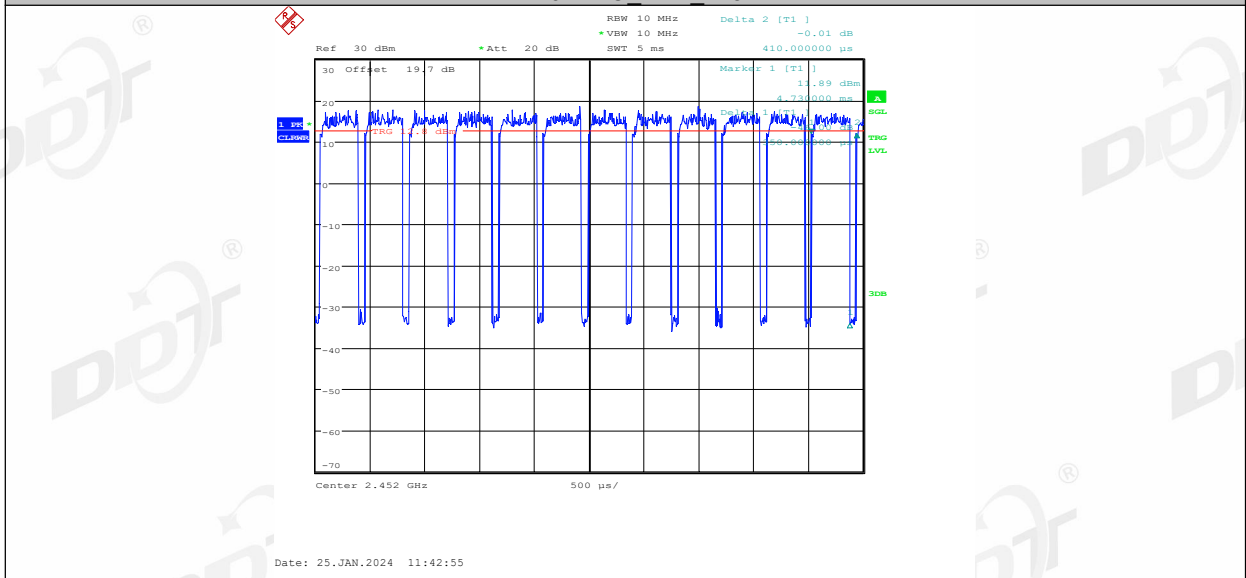
11N40MIMO_Ant1_2437



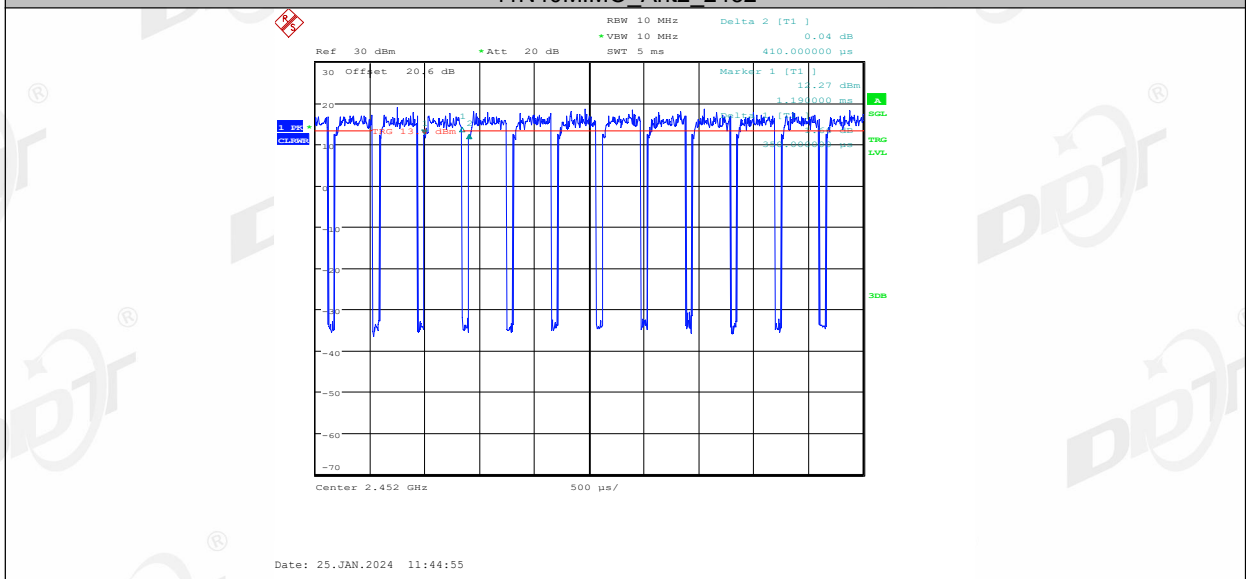
11N40MIMO_Ant2_2437



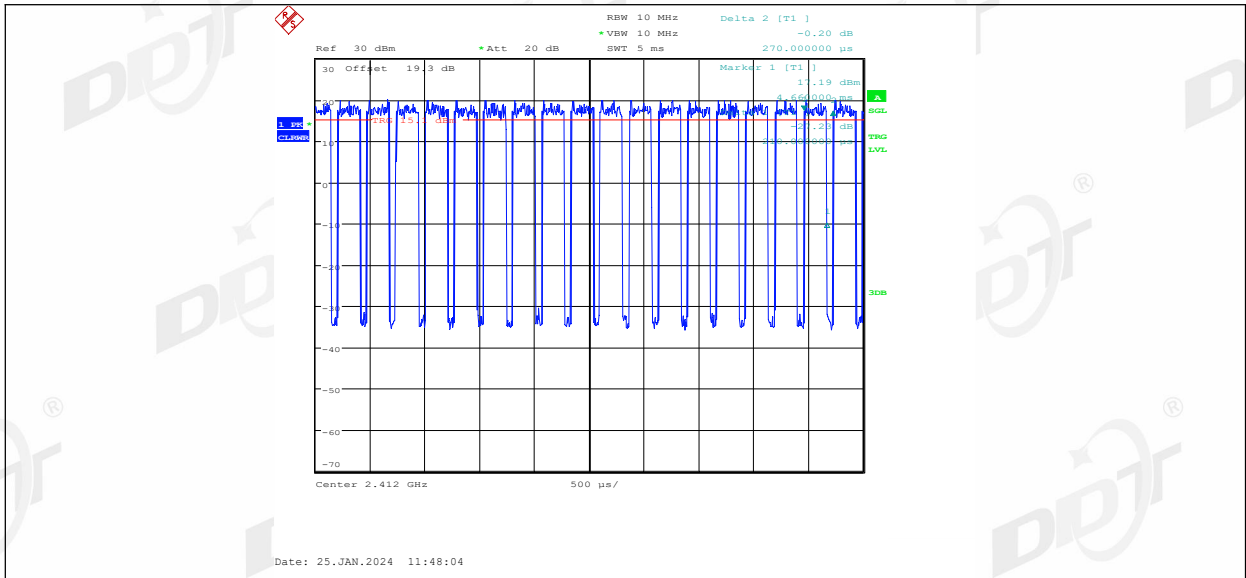
11N40MIMO_Ant1_2452



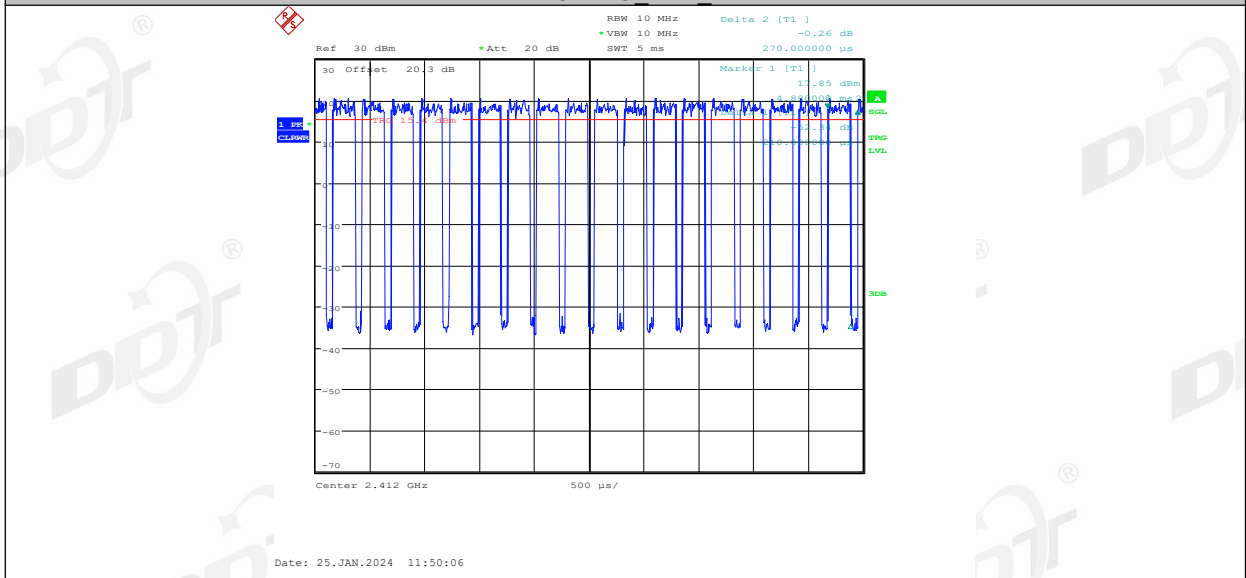
11N40MIMO_Ant2_2452



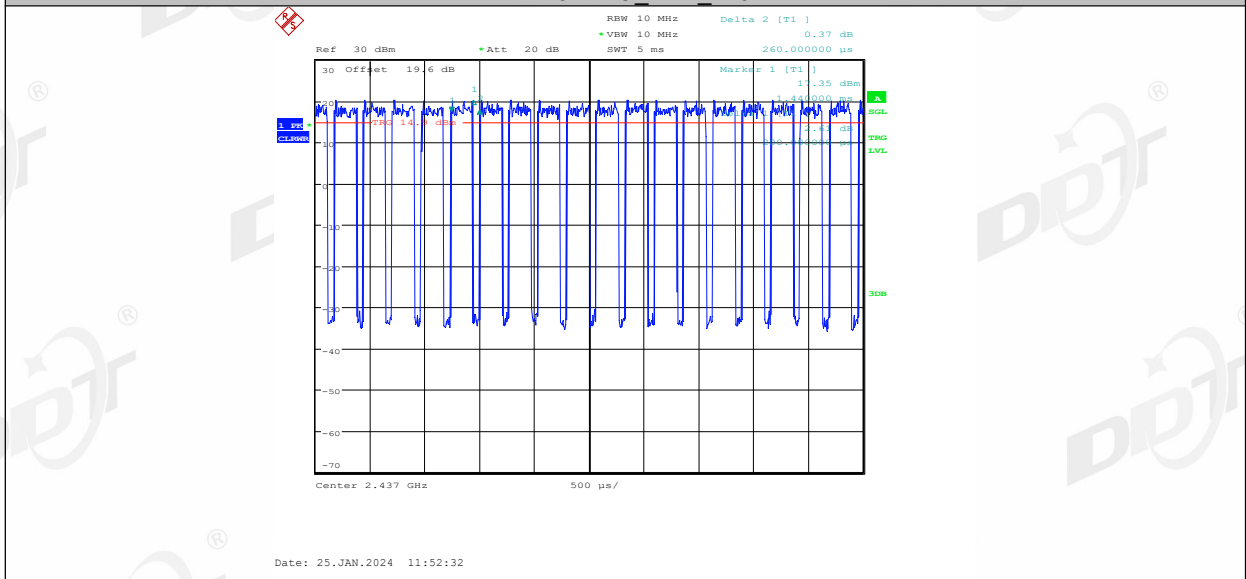
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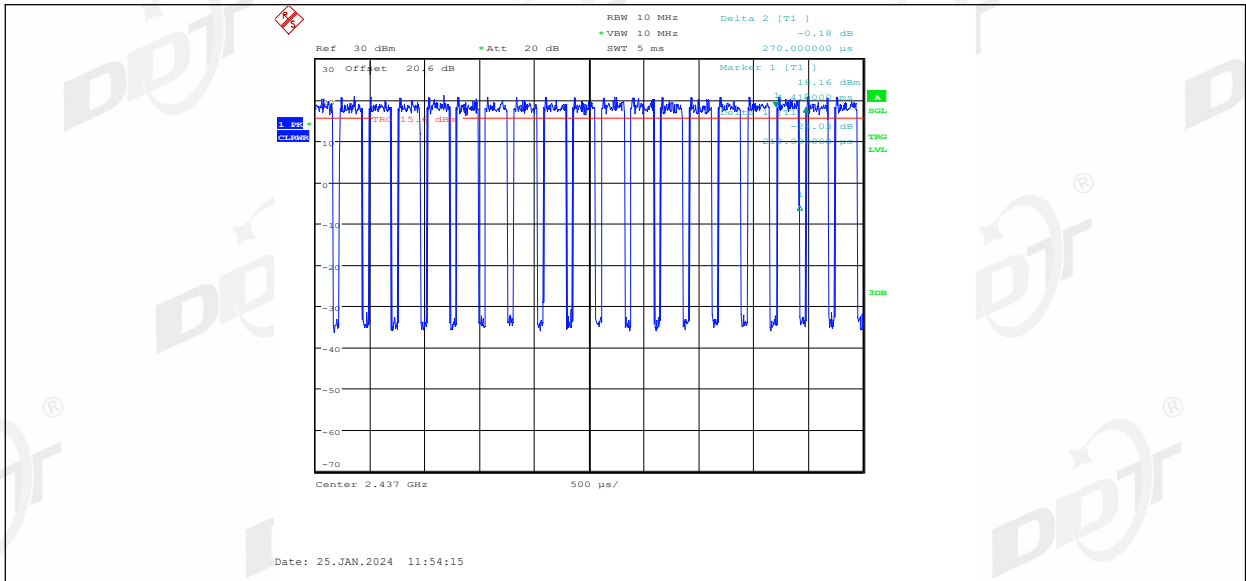
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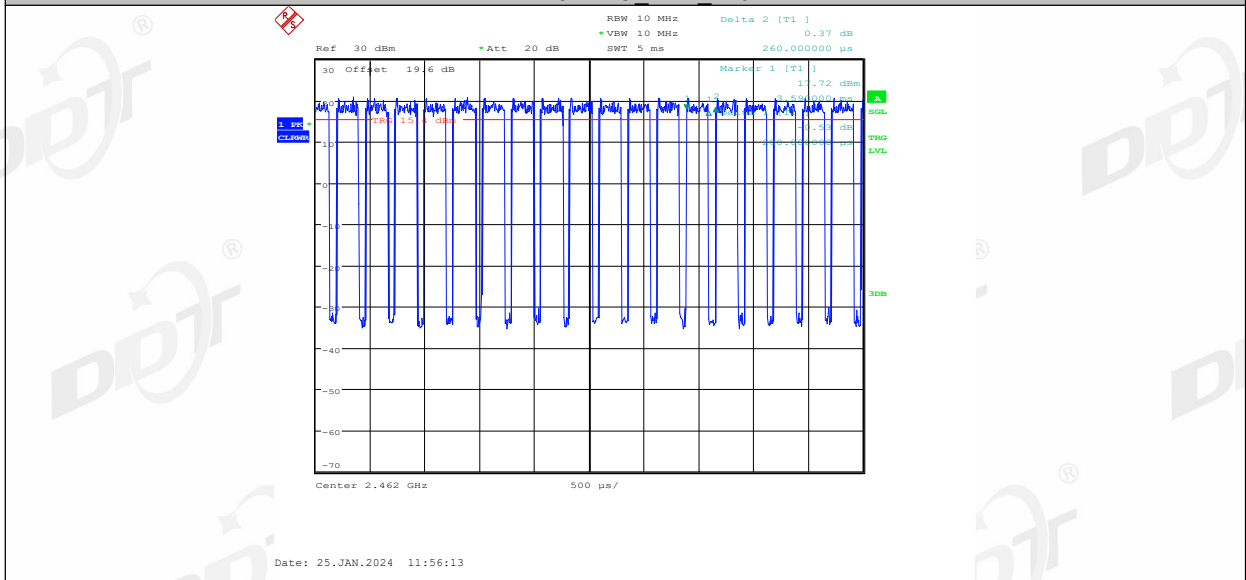
11AX20MIMO Ant1 2437



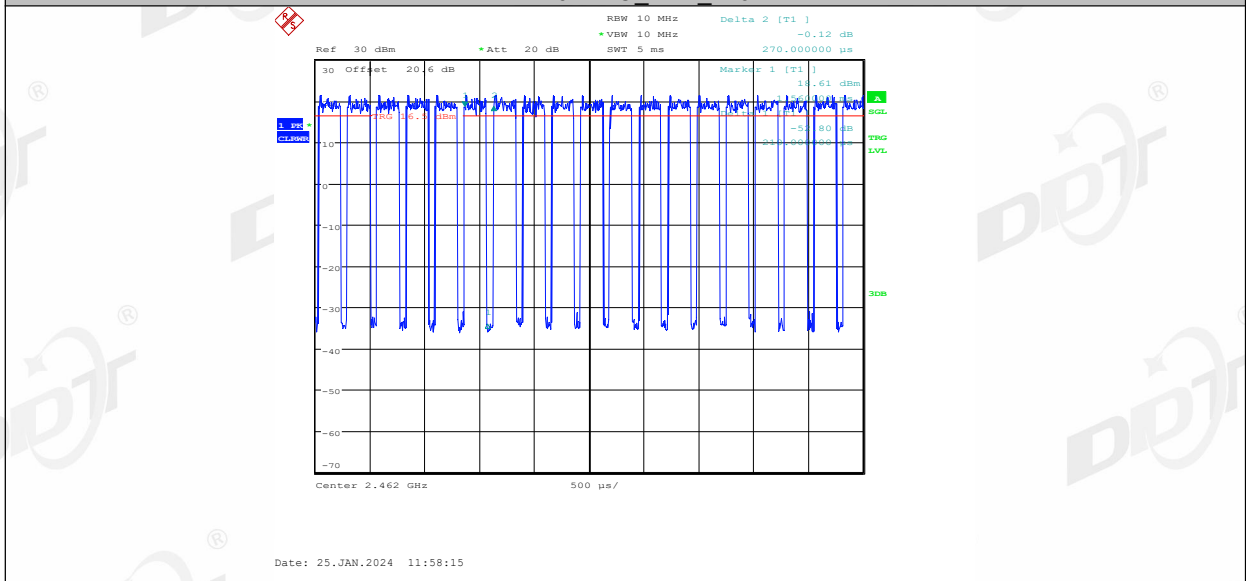
11AX20MIMO Ant2 2437



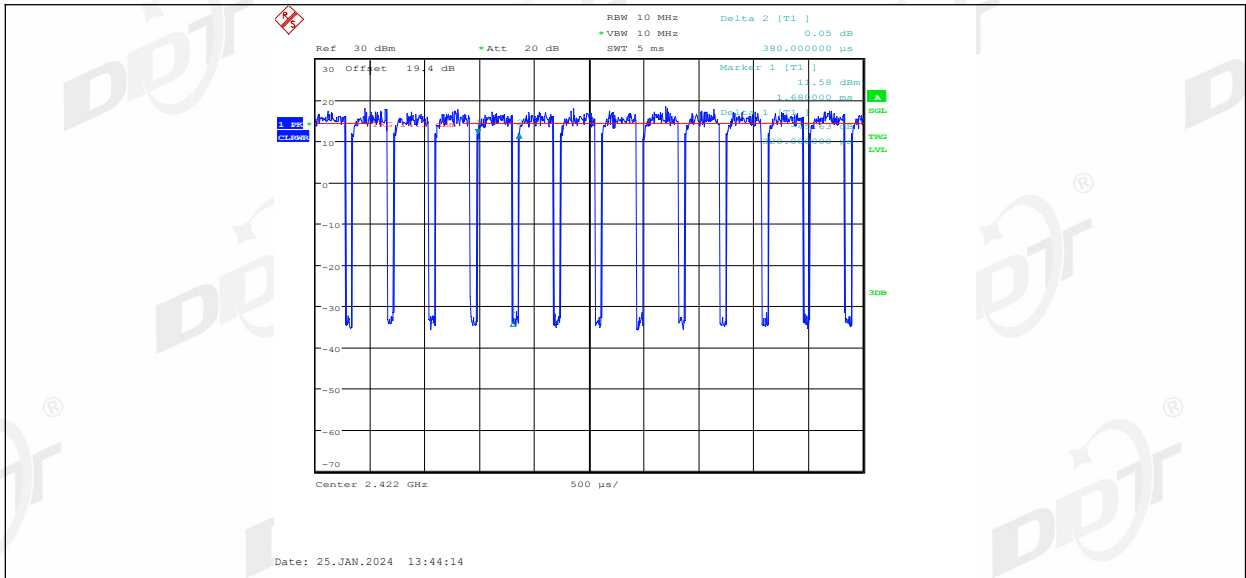
11AX20MIMO Ant1 2462



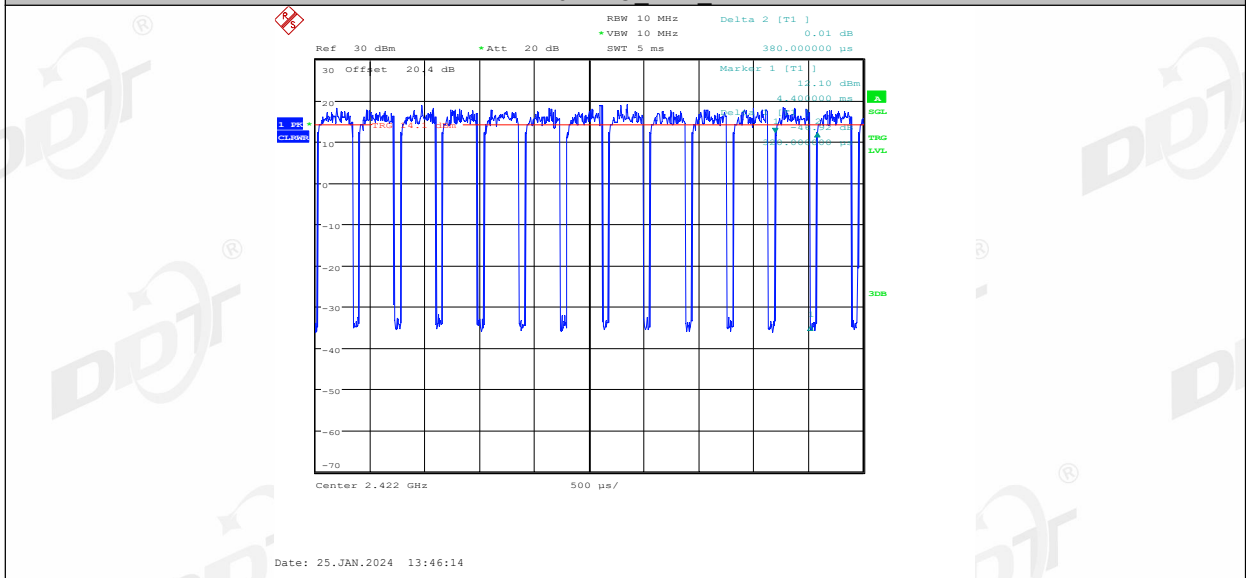
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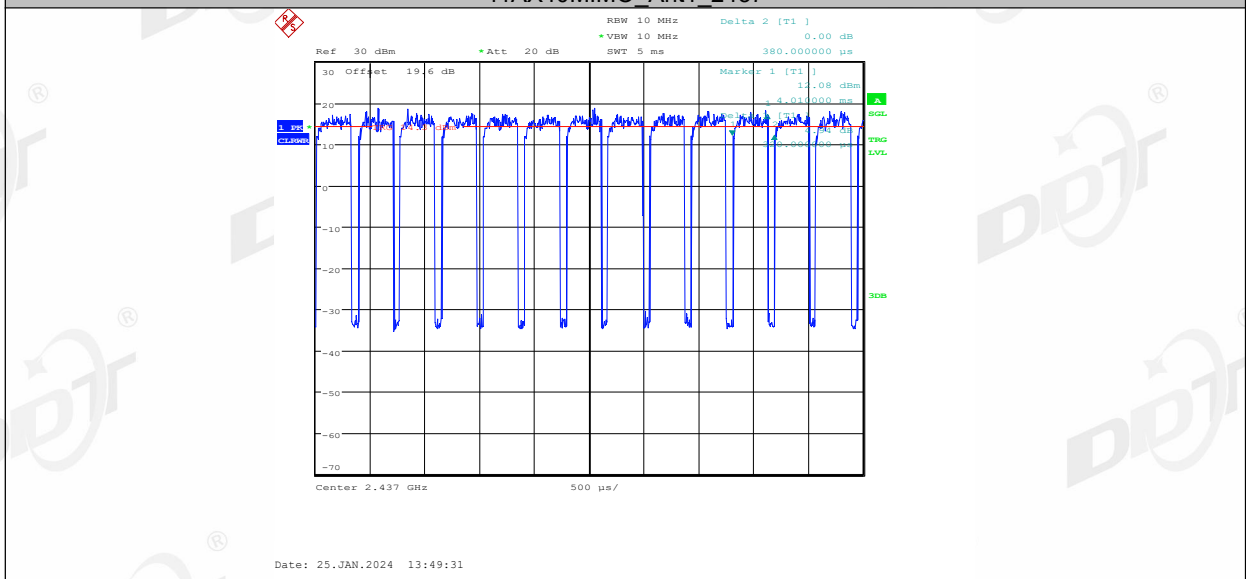
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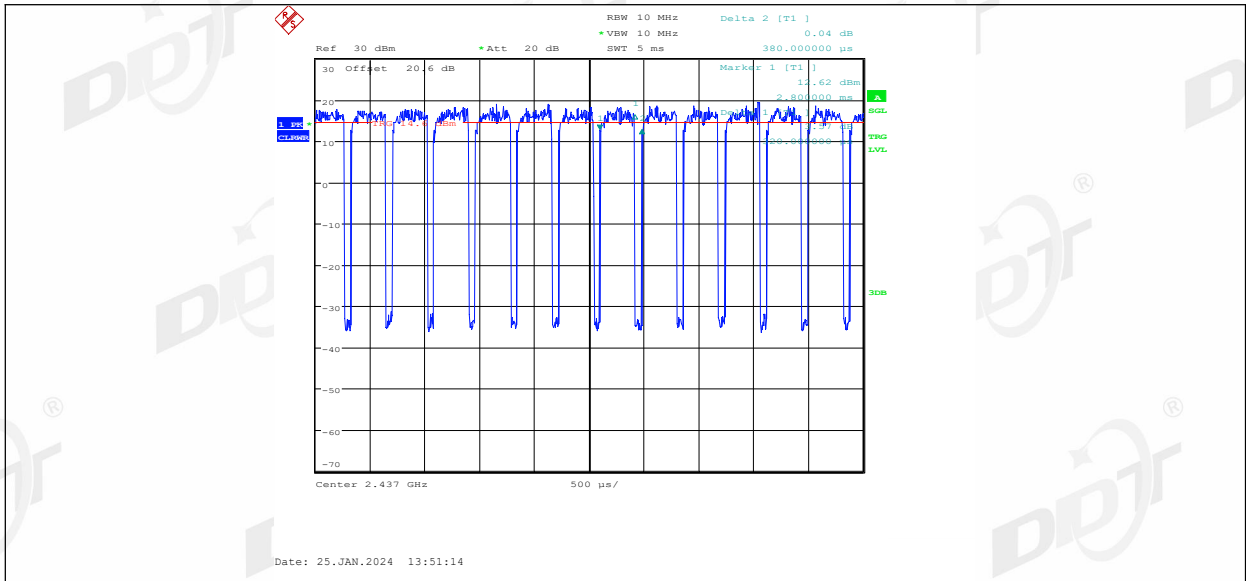
11AX40MIMO Ant2 2422



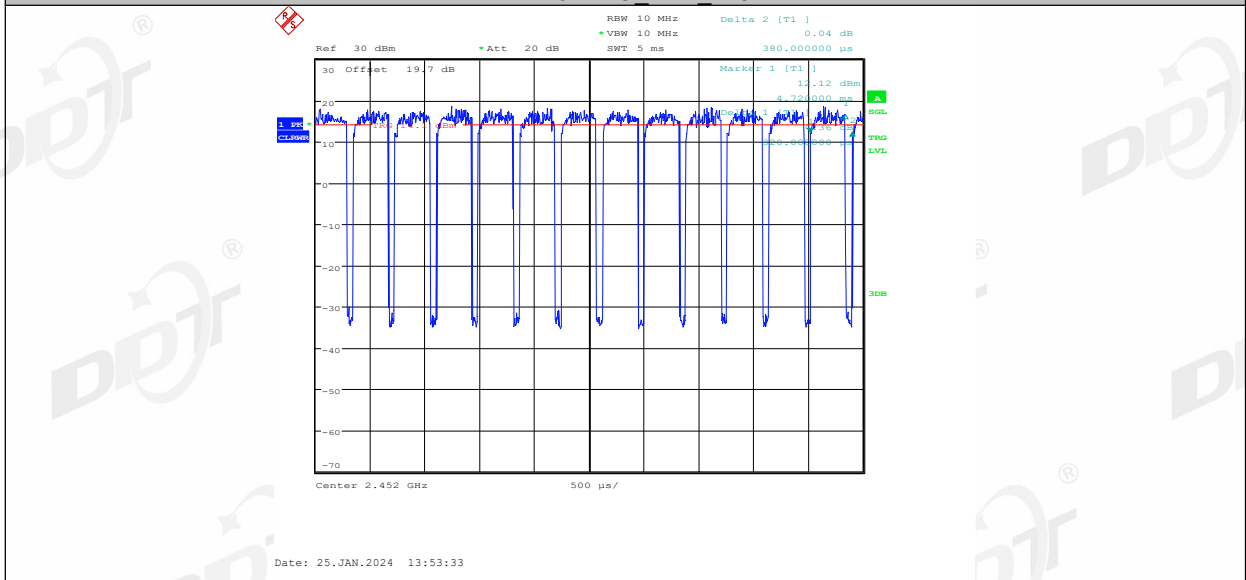
11AX40MIMO Ant1 2437



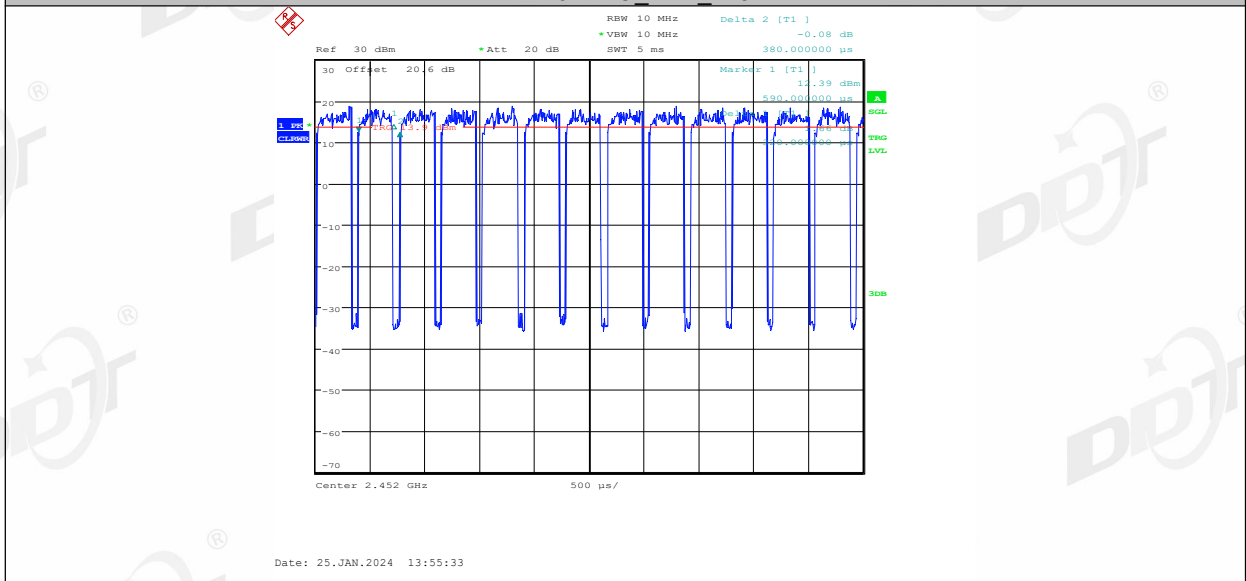
11AX40MIMO Ant2 2437



11AX40MIMO Ant1 2452



11AX40MIMO Ant2 2452

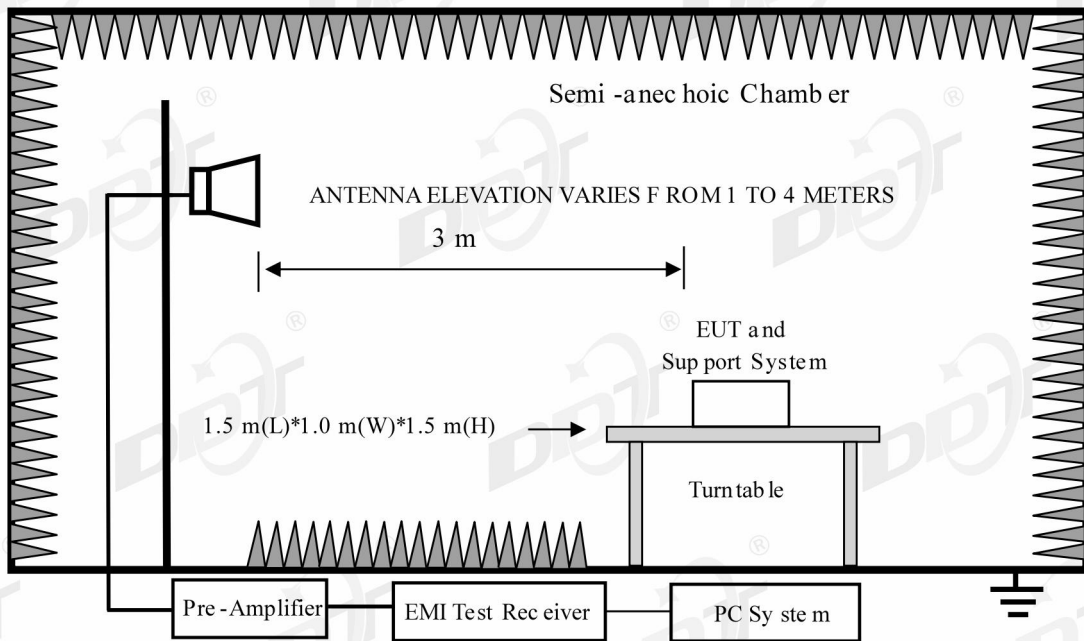
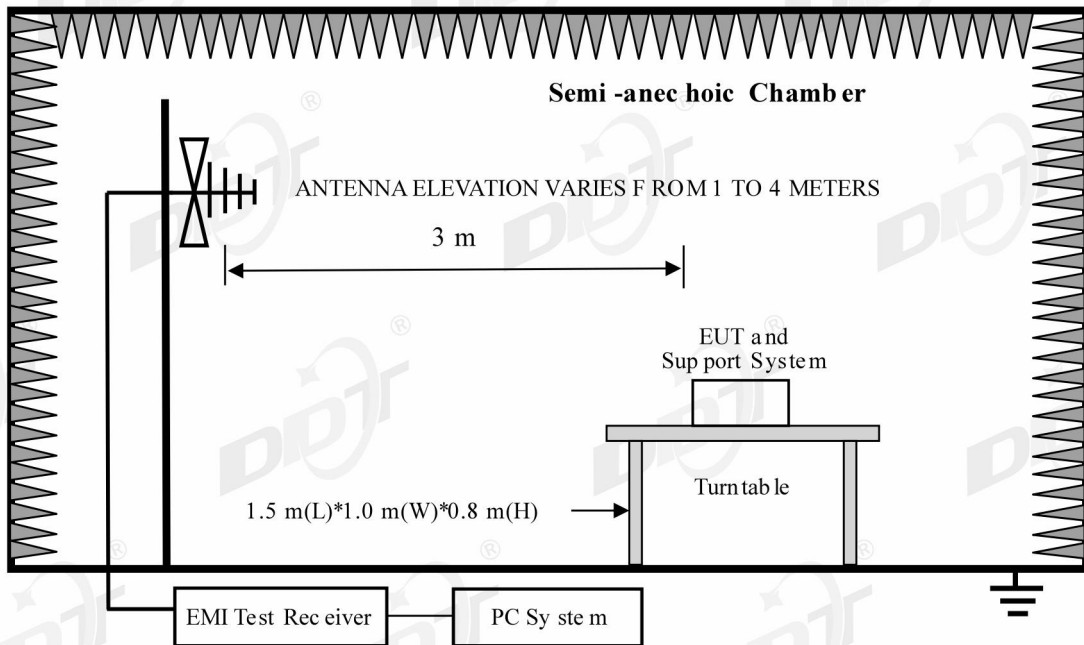


11.Radiated Emission

11.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2024/05/14
Hochgewinn-Hornantenne	Schwarzbeck Mess-Elektronik	BBHA 9120 D	DDT-ZC02129	2024/09/17
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2024/04/26
High Pass filter	XIANXINGBO	XBLBQ-GTA67	DDT-ZC02179	2024/05/14
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2024/04/20
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2024/04/23
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2024/04/23
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2024/09/10
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2024/04/27
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2024/05/14
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2024/04/21
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2024/04/23
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2024/04/23
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2024/04/21
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2024/07/11
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/

11.2. Block diagram of test setup



11.3. Limits

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2

4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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

2Above 38.6

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	DISTANCE	FIELD STRENGTHS LIMIT
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MHz		Meters	mV/m	dB(mV)/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 dB(mV)/m (Peak) 54.0 dB(mV)/m (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

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

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, 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.

11.4. Assistant equipment used for test

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

11.5. 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 to ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, the antenna was located 3 m from the 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 3 m from the 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 degrees, 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 through 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 obvious emissions 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 1 GHz, 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 to ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

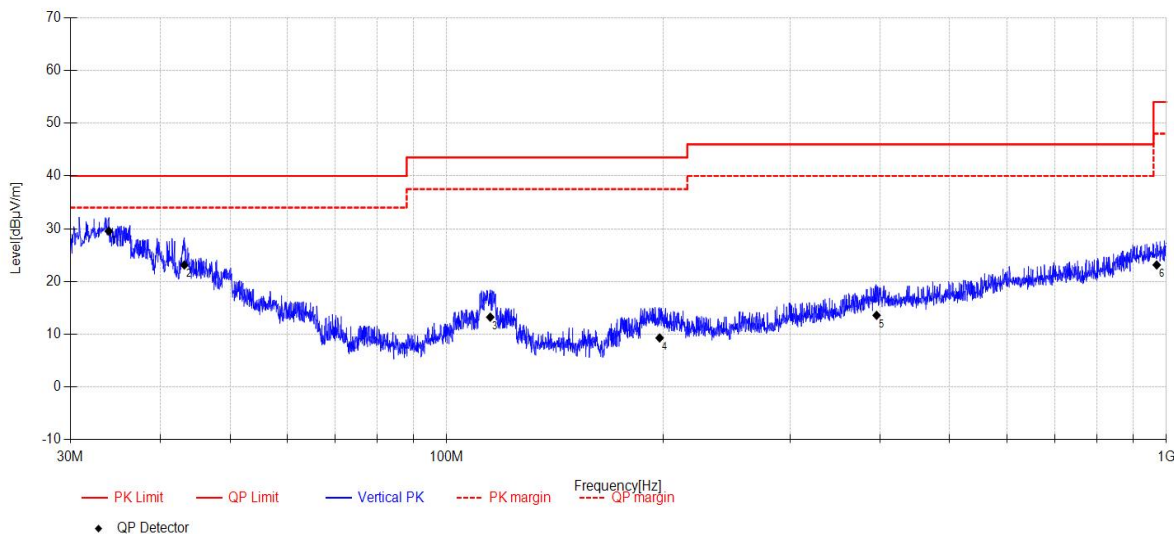
(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

11.6. Test result

PASS. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 2.4GWIFI TX **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC BELOW 1G\20240124-025433_V
Memo: Sample Number:S23111605-03 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	33.94	44.44	11.51	4.52	-30.94	29.53	40.00	10.47	QP	Vertical
2	43.20	36.45	12.84	4.64	-30.80	23.13	40.00	16.87	QP	Vertical
3	114.97	28.64	10.32	5.14	-30.86	13.24	43.50	30.26	QP	Vertical
4	197.68	23.73	10.47	5.71	-30.61	9.30	43.50	34.20	QP	Vertical
5	395.76	21.89	15.13	6.68	-30.11	13.59	46.00	32.41	QP	Vertical
6	969.62	21.31	21.62	8.58	-28.37	23.14	54.00	30.86	QP	Vertical

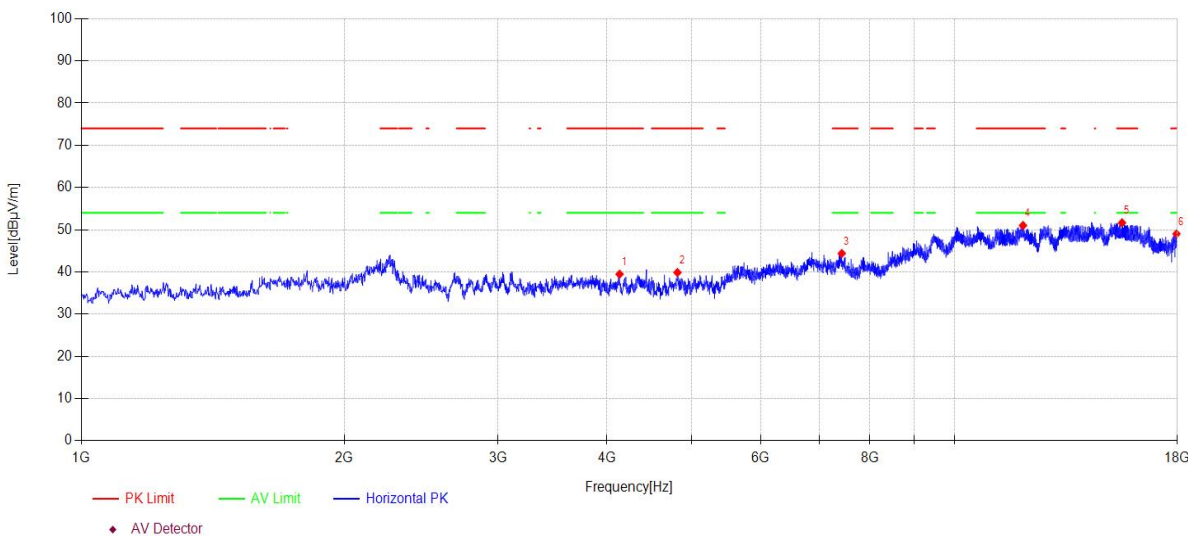
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI47
Memo: Sample Number:S23111605-03 Power Setting:NA

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	4134.80	42.58	31.17	6.12	-40.40	39.47	74.00	34.53	PK	Horizontal
2	4816.50	39.58	32.93	7.50	-40.15	39.86	74.00	34.14	PK	Horizontal
3	7429.40	41.87	36.64	7.64	-41.77	44.38	74.00	29.62	PK	Horizontal
4	11982.00	40.89	39.15	10.52	-39.55	51.01	74.00	22.99	PK	Horizontal
5	15557.10	38.18	38.69	13.87	-39.09	51.65	74.00	22.35	PK	Horizontal
6	17959.20	36.05	42.20	13.08	-42.31	49.02	74.00	24.98	PK	Horizontal

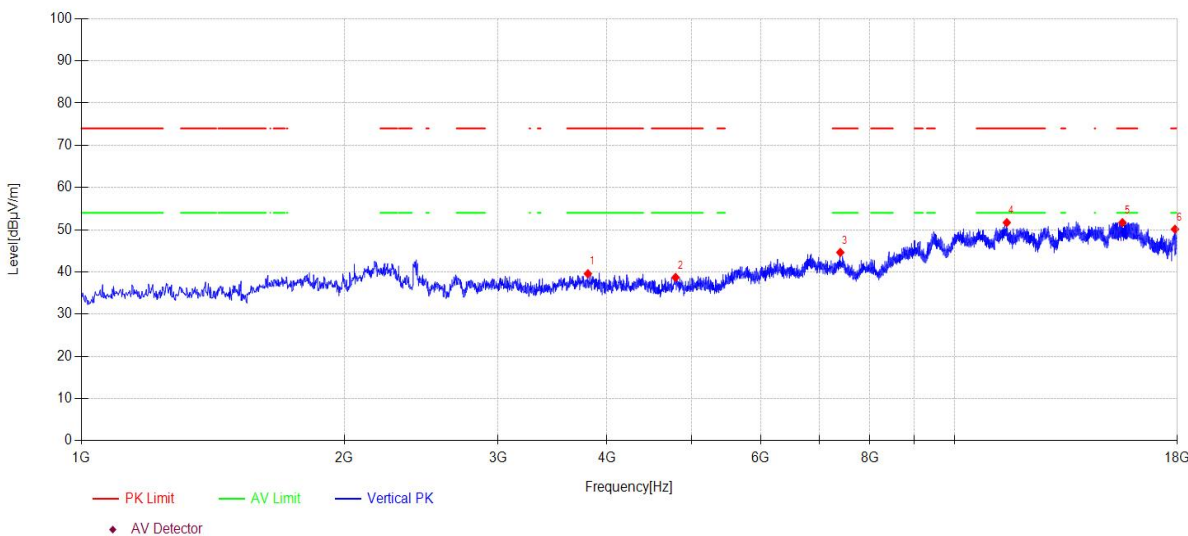
Note:

- 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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI48
Memo: Sample Number:S23111605-03 Power Setting:NA

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	3803.30	43.40	30.71	5.81	-40.33	39.59	74.00	34.41	PK	Vertical
2	4792.70	38.94	32.47	7.45	-40.16	38.70	74.00	35.30	PK	Vertical
3	7400.50	41.98	36.70	7.64	-41.70	44.62	74.00	29.38	PK	Vertical
4	11480.50	41.72	39.22	10.08	-39.32	51.70	74.00	22.30	PK	Vertical
5	15574.10	38.19	38.65	13.95	-39.10	51.69	74.00	22.31	PK	Vertical
6	17887.80	37.50	41.77	13.00	-42.15	50.12	74.00	23.88	PK	Vertical

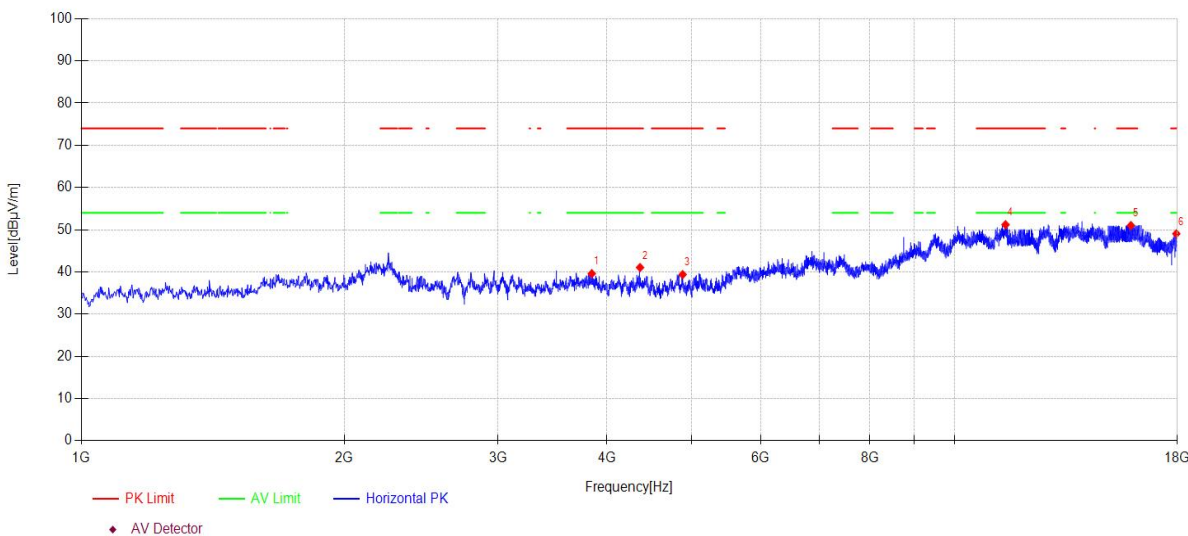
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2437MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI49
Memo: Sample Number:S23111605-03 Power Setting:NA

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	3842.40	43.26	30.87	5.82	-40.35	39.60	74.00	34.40	PK	Horizontal
2	4364.30	43.15	31.63	6.59	-40.32	41.05	74.00	32.95	PK	Horizontal
3	4882.80	38.59	33.28	7.63	-40.12	39.38	74.00	34.62	PK	Horizontal
4	11441.40	41.19	39.26	10.04	-39.30	51.19	74.00	22.81	PK	Horizontal
5	15926.00	36.71	38.07	15.54	-39.32	51.00	74.00	23.00	PK	Horizontal
6	17952.40	36.12	42.16	13.07	-42.29	49.06	74.00	24.94	PK	Horizontal

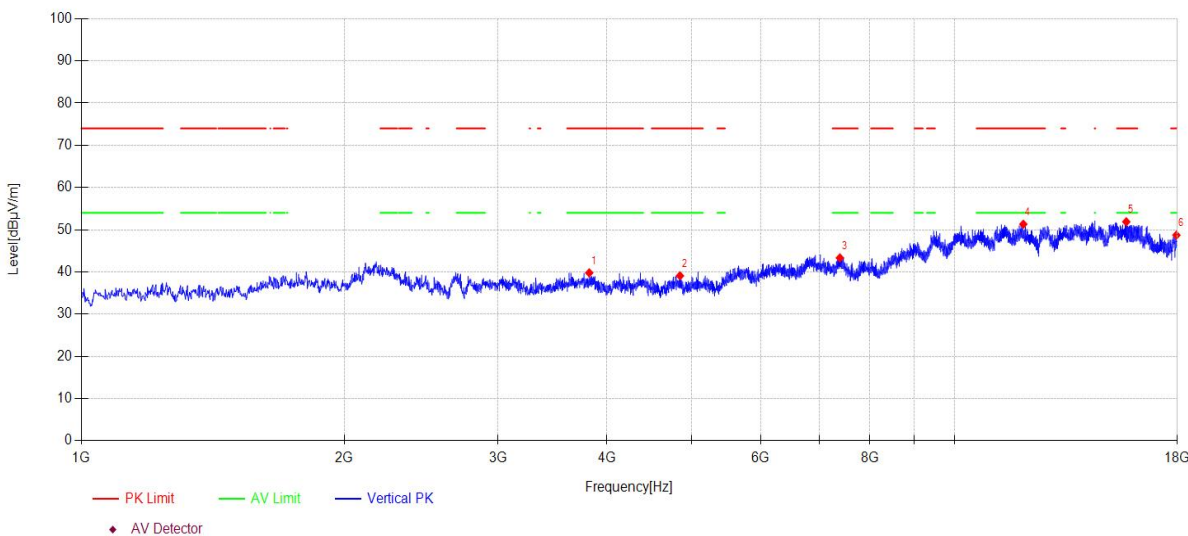
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2437MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\50
Memo: Sample Number:S23111605-03 Power Setting:NA

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	3816.90	43.54	30.77	5.81	-40.34	39.78	74.00	34.22	PK	Vertical
2	4848.80	37.89	33.77	7.56	-40.14	39.08	74.00	34.92	PK	Vertical
3	7392.00	40.65	36.72	7.64	-41.68	43.33	74.00	30.67	PK	Vertical
4	11992.20	41.16	39.18	10.53	-39.56	51.31	74.00	22.69	PK	Vertical
5	15733.90	37.98	38.43	14.67	-39.20	51.88	74.00	22.12	PK	Vertical
6	17955.80	35.76	42.18	13.08	-42.30	48.72	74.00	25.28	PK	Vertical

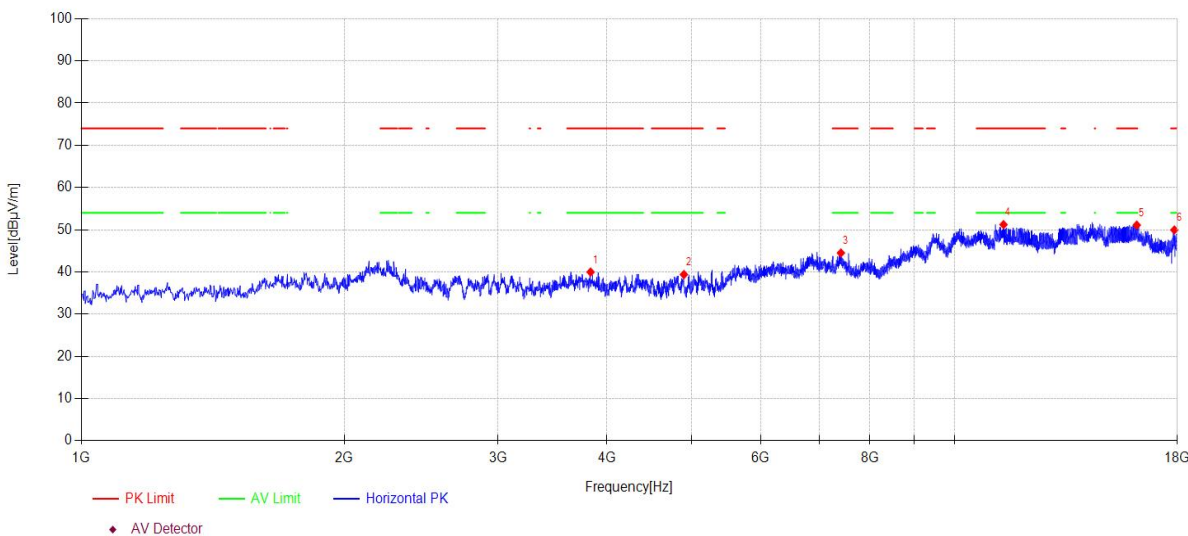
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\51
Memo: Sample Number:S23111605-03 Power Setting:NA

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	3830.50	43.69	30.82	5.81	-40.35	39.97	74.00	34.03	PK	Horizontal
2	4899.80	38.83	33.00	7.67	-40.12	39.38	74.00	34.62	PK	Horizontal
3	7412.40	41.91	36.68	7.64	-41.73	44.50	74.00	29.50	PK	Horizontal
4	11381.90	41.21	39.28	9.99	-39.27	51.21	74.00	22.79	PK	Horizontal
5	16172.50	37.57	37.83	15.20	-39.50	51.10	74.00	22.90	PK	Horizontal
6	17858.90	37.63	41.45	12.96	-42.09	49.95	74.00	24.05	PK	Horizontal

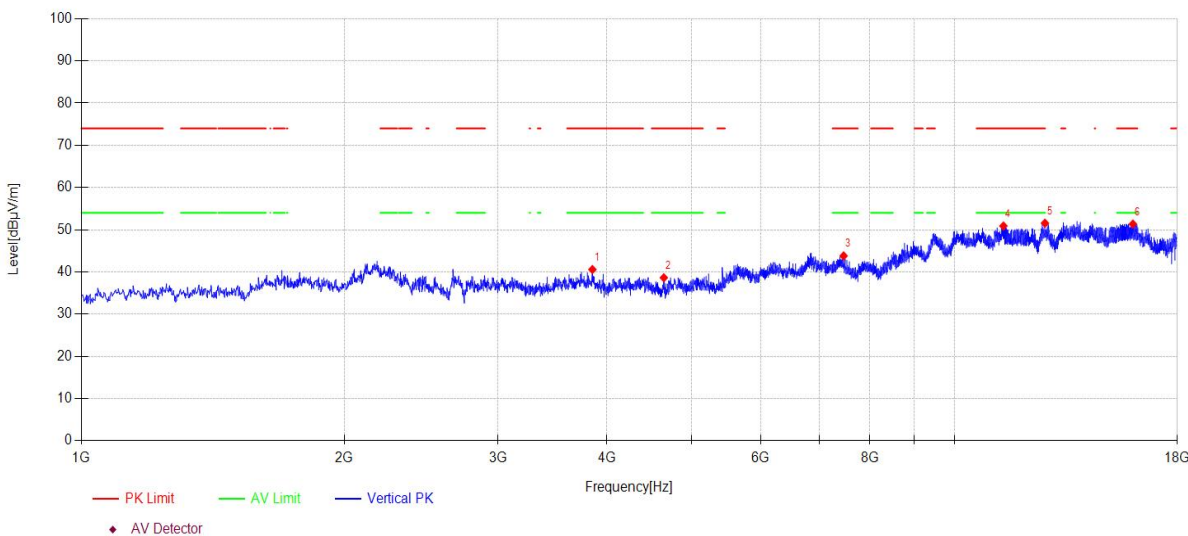
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\52
Memo: Sample Number:S23111605-03 Power Setting:NA

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	3849.20	44.22	30.90	5.82	-40.36	40.58	74.00	33.42	PK	Vertical
2	4646.50	39.69	31.99	7.16	-40.21	38.63	74.00	35.37	PK	Vertical
3	7465.10	41.45	36.57	7.64	-41.86	43.80	74.00	30.20	PK	Vertical
4	11378.50	40.88	39.28	9.99	-39.27	50.88	74.00	23.12	PK	Vertical
5	12696.00	41.25	39.59	10.54	-39.83	51.55	74.00	22.45	PK	Vertical
6	16011.00	36.89	37.99	15.84	-39.37	51.35	74.00	22.65	PK	Vertical

Note:

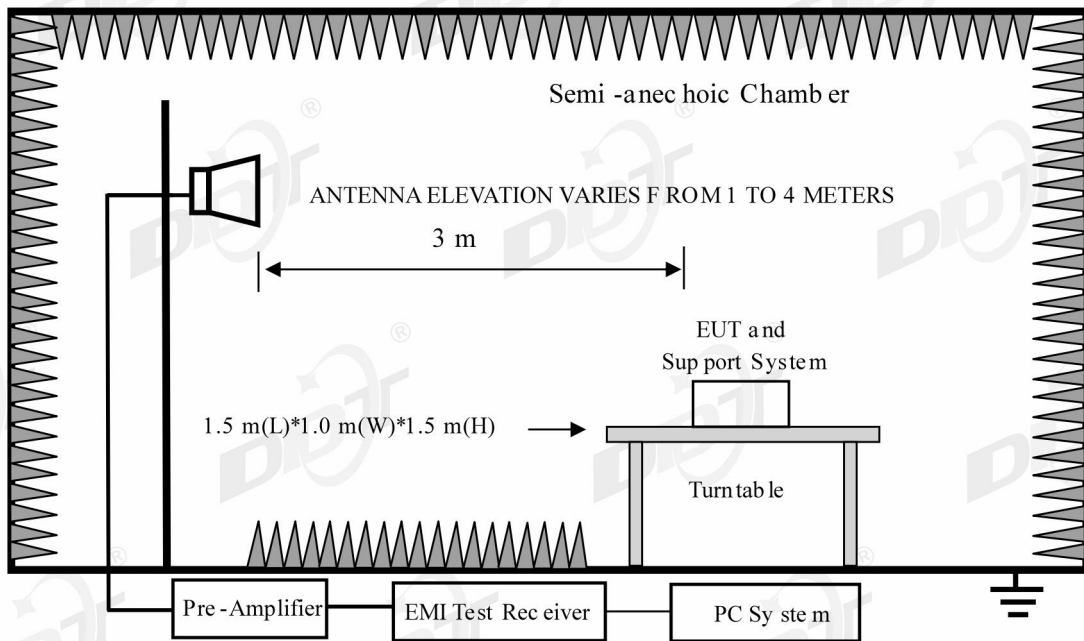
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Band Edge Compliance

12.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2024/04/26
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2024/09/10
Hochgewinn-Hornantenne	Schwarzbeck Mess-Elektronik	BBHA 9120 D	DDT-ZC02129	2024/09/17
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2024/04/23
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2024/04/21
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2024/04/20
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2024/04/27
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2024/07/11
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2024/05/14
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2024/04/23
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2024/04/21
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2024/04/23
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2024/04/23
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2024/05/14
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
High Pass filter	XIANXINGBO	XBLBQ-GTA67	DDT-ZC02179	2024/05/14
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14

12.2. Block diagram of test setup



12.3. 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.

12.4. Assistant equipment used for test

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

12.5. 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.

12.6. Test result

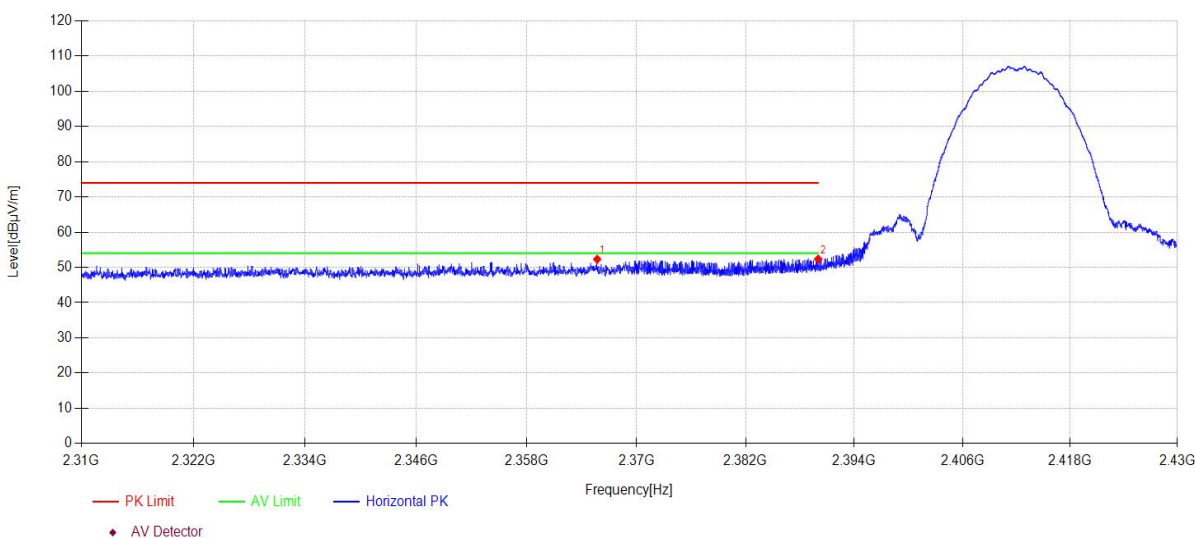
PASS. (See below detailed test result)

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11B ANT1 TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\53
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2365.73	21.30	27.16	3.85	0.00	52.31	74.00	21.69	PK	Horizontal
2	2390.00	21.21	27.26	3.87	0.00	52.34	74.00	21.66	PK	Horizontal

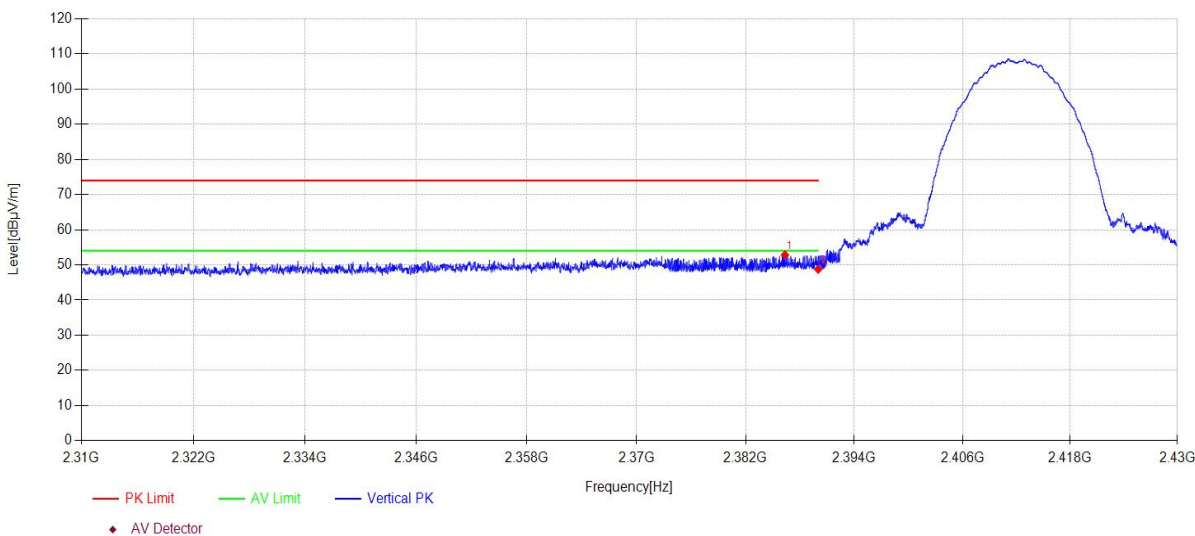
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11B ANT1 TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\54
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2386.33	21.76	27.25	3.86	0.00	52.87	74.00	21.13	PK	Vertical
2	2390.00	17.64	27.26	3.87	0.00	48.77	74.00	25.23	PK	Vertical

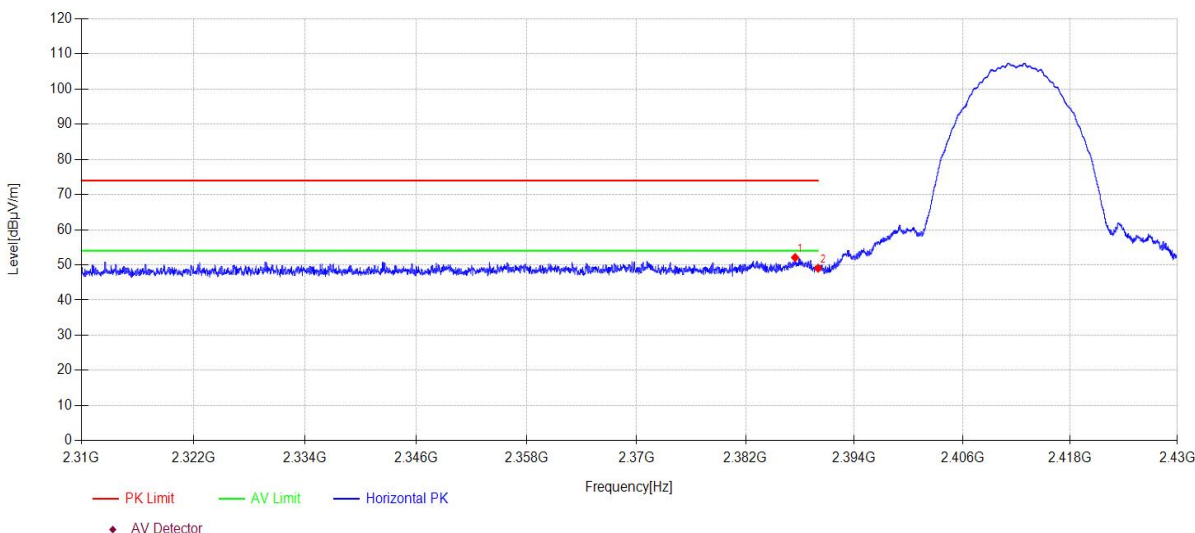
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11B ANT2 TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\55
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2387.46	20.98	27.25	3.86	0.00	52.09	74.00	21.91	PK	Horizontal
2	2390.00	17.93	27.26	3.87	0.00	49.06	74.00	24.94	PK	Horizontal

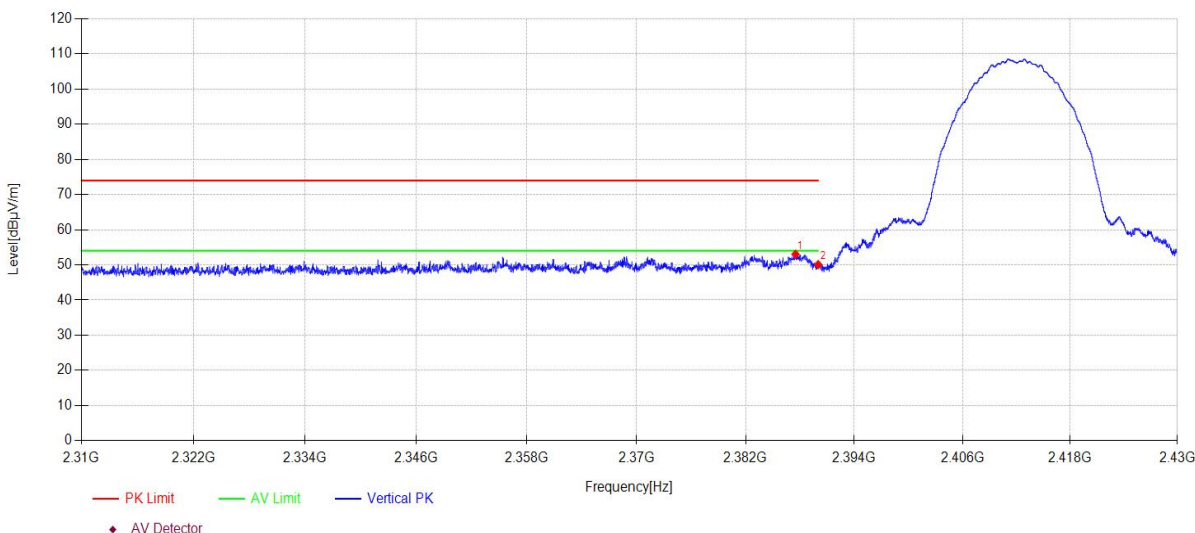
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11B ANT2 TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\56
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2387.50	21.93	27.25	3.86	0.00	53.04	74.00	20.96	PK	Vertical
2	2390.00	18.96	27.26	3.87	0.00	50.09	74.00	23.91	PK	Vertical

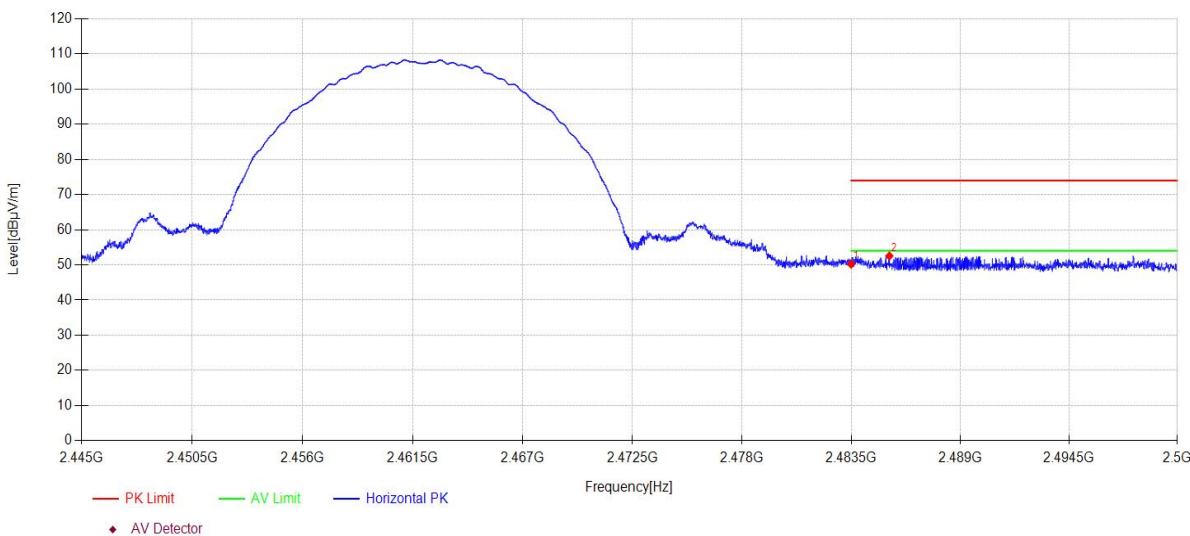
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11B ANT1 TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\57
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2483.50	18.74	27.53	3.94	0.00	50.21	74.00	23.79	PK	Horizontal
2	2485.43	21.06	27.54	3.94	0.00	52.54	74.00	21.46	PK	Horizontal

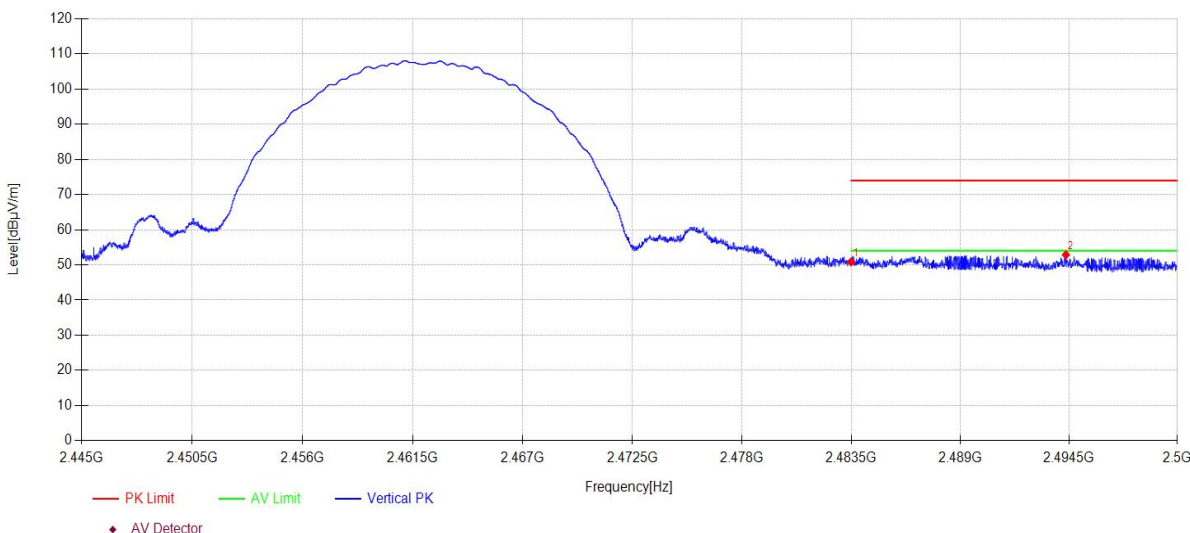
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11B ANT1 TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\58
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2483.50	19.37	27.53	3.94	0.00	50.84	74.00	23.16	PK	Vertical
2	2494.35	21.35	27.58	3.95	0.00	52.88	74.00	21.12	PK	Vertical

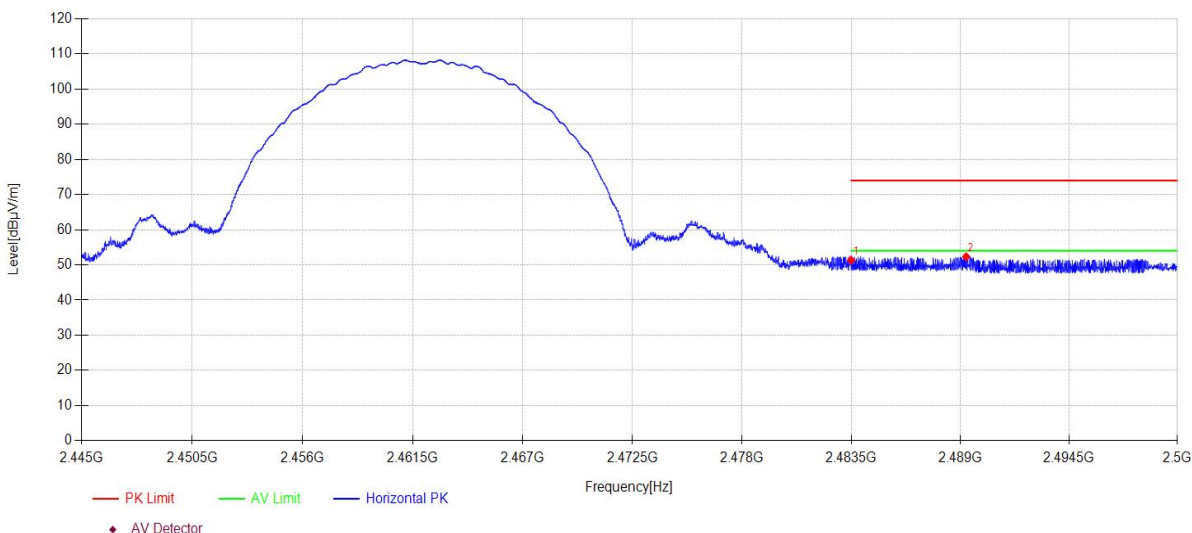
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11B ANT2 TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\59
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2483.50	19.88	27.53	3.94	0.00	51.35	74.00	22.65	PK	Horizontal
2	2489.31	20.82	27.56	3.94	0.00	52.32	74.00	21.68	PK	Horizontal

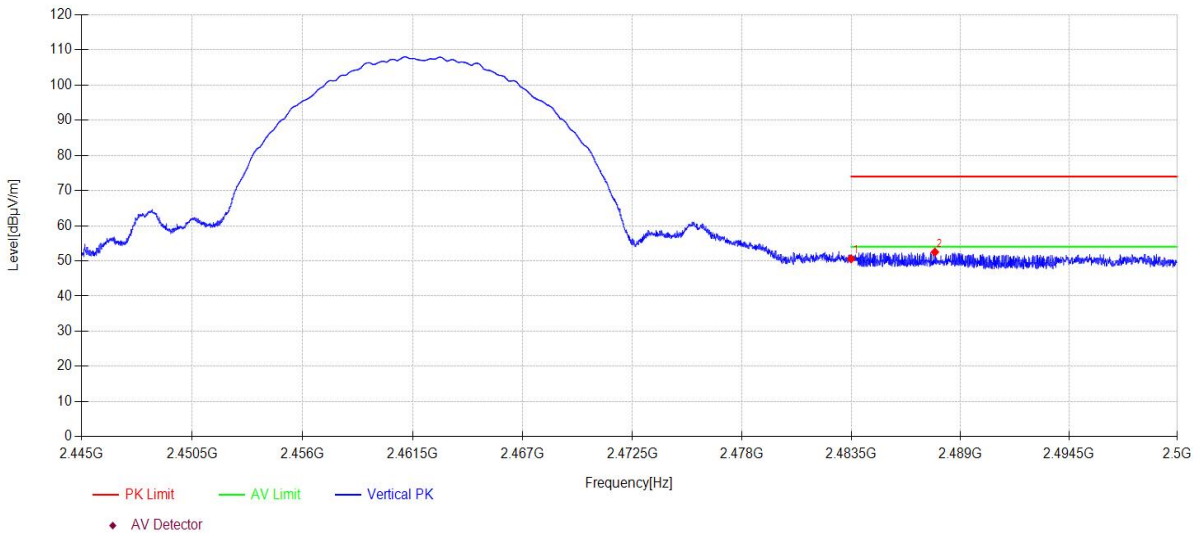
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11B ANT2 TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\60
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2483.50	19.12	27.53	3.94	0.00	50.59	74.00	23.41	PK	Vertical
2	2487.73	21.02	27.55	3.94	0.00	52.51	74.00	21.49	PK	Vertical

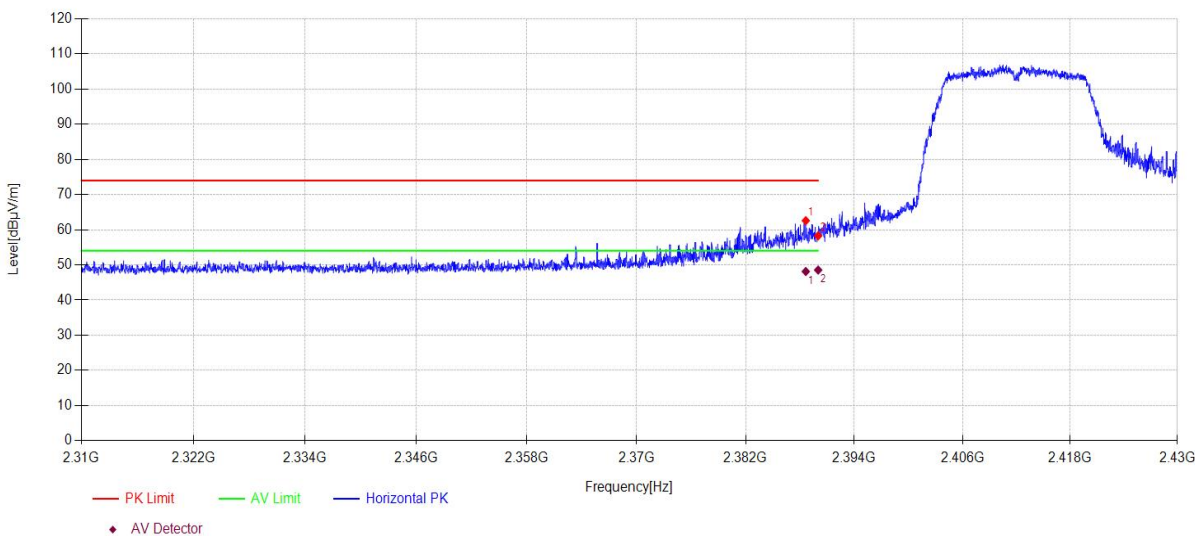
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11G ANT1 TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\61
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2388.64	31.46	27.25	3.87	0.00	62.58	74.00	11.42	PK	Horizontal
2	2390.00	27.13	27.26	3.87	0.00	58.26	74.00	15.74	PK	Horizontal

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	2388.64	17.01	27.25	3.87	0.00	48.13	54.00	5.87	AV	Horizontal
2	2390.00	17.41	27.26	3.87	0.00	48.54	54.00	5.46	AV	Horizontal

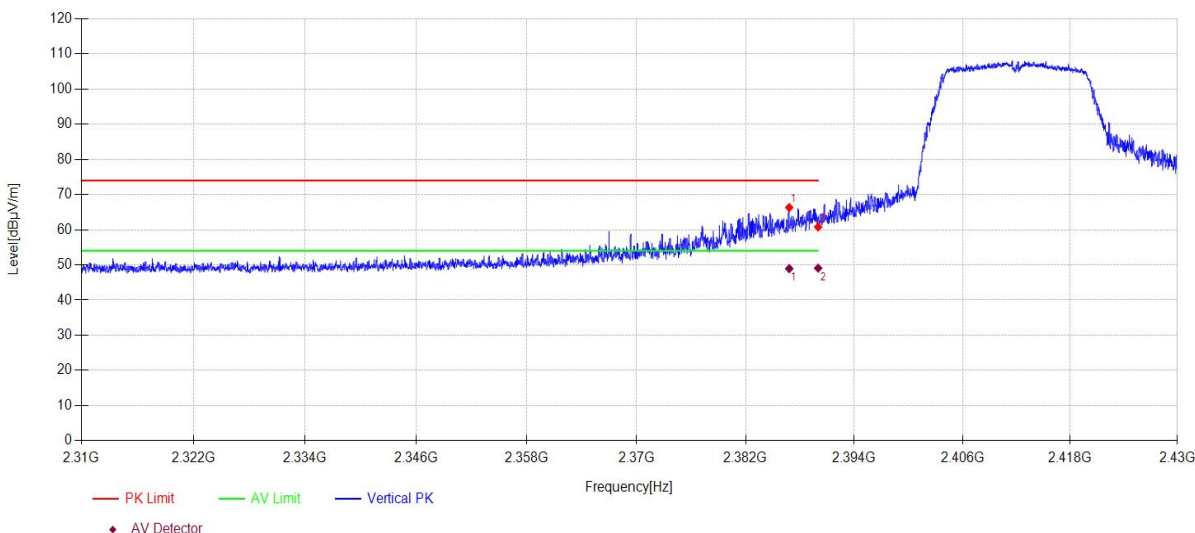
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11G ANT1 TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\62
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2386.81	35.20	27.25	3.86	0.00	66.31	74.00	7.69	PK	Vertical
2	2390.00	29.67	27.26	3.87	0.00	60.80	74.00	13.20	PK	Vertical

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	2386.81	17.82	27.25	3.86	0.00	48.93	54.00	5.07	AV	Vertical
2	2390.00	17.94	27.26	3.87	0.00	49.07	54.00	4.93	AV	Vertical

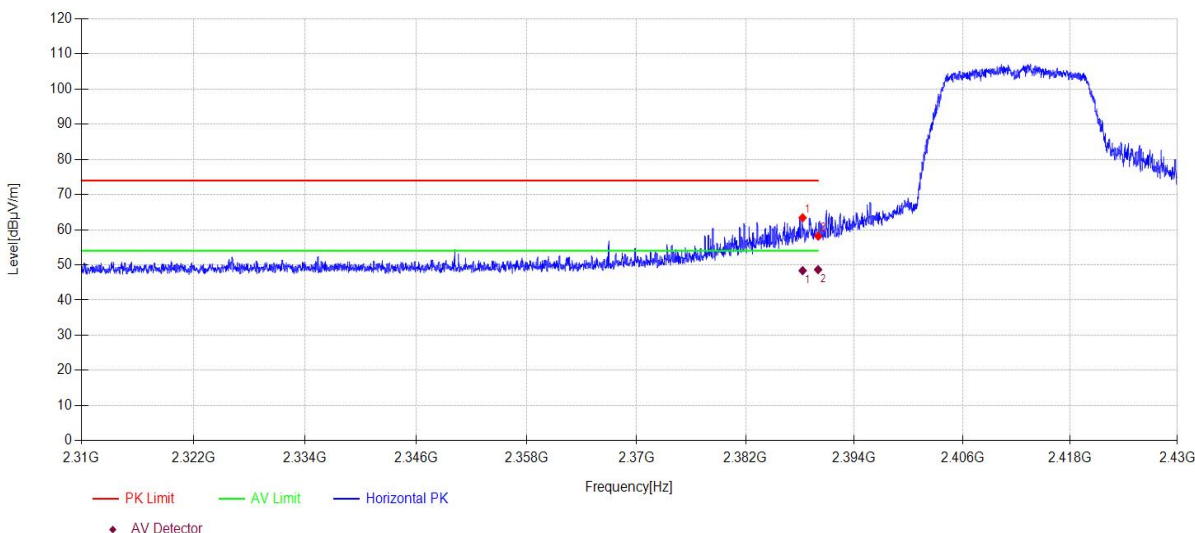
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11G ANT2 TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\63
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2388.29	32.28	27.25	3.87	0.00	63.40	74.00	10.60	PK	Horizontal
2	2390.00	27.04	27.26	3.87	0.00	58.17	74.00	15.83	PK	Horizontal

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	2388.29	17.24	27.25	3.87	0.00	48.36	54.00	5.64	AV	Horizontal
2	2390.00	17.52	27.26	3.87	0.00	48.65	54.00	5.35	AV	Horizontal

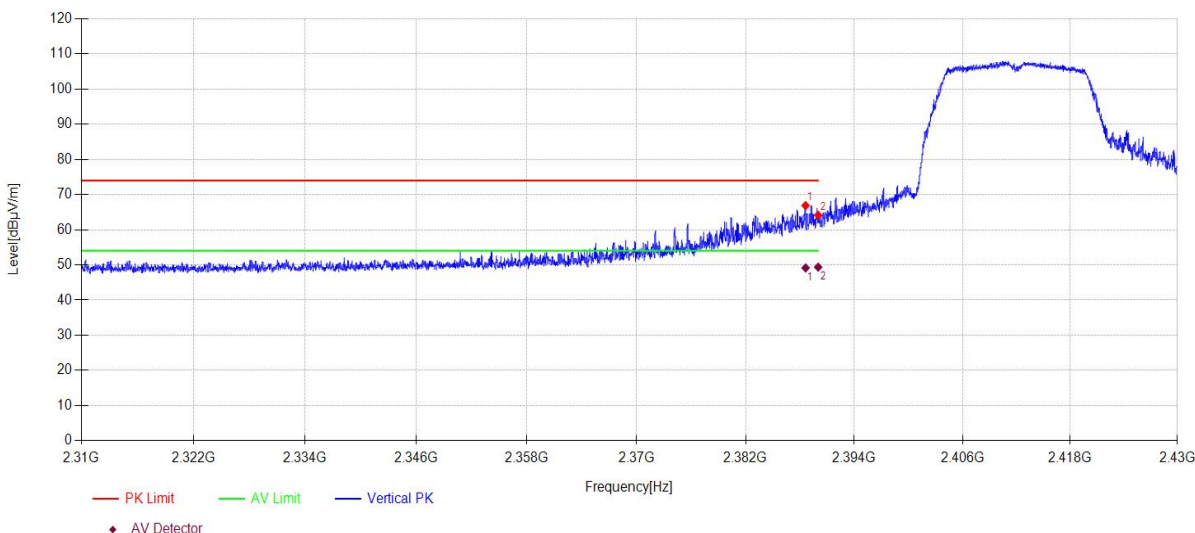
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11G ANT2 TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\64
Memo: Sample Number:S23111605-03 Power Setting:NA

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	2388.61	35.75	27.25	3.87	0.00	66.87	74.00	7.13	PK	Vertical
2	2390.00	33.01	27.26	3.87	0.00	64.14	74.00	9.86	PK	Vertical

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	2388.61	18.03	27.25	3.87	0.00	49.15	54.00	4.85	AV	Vertical
2	2390.00	18.24	27.26	3.87	0.00	49.37	54.00	4.63	AV	Vertical

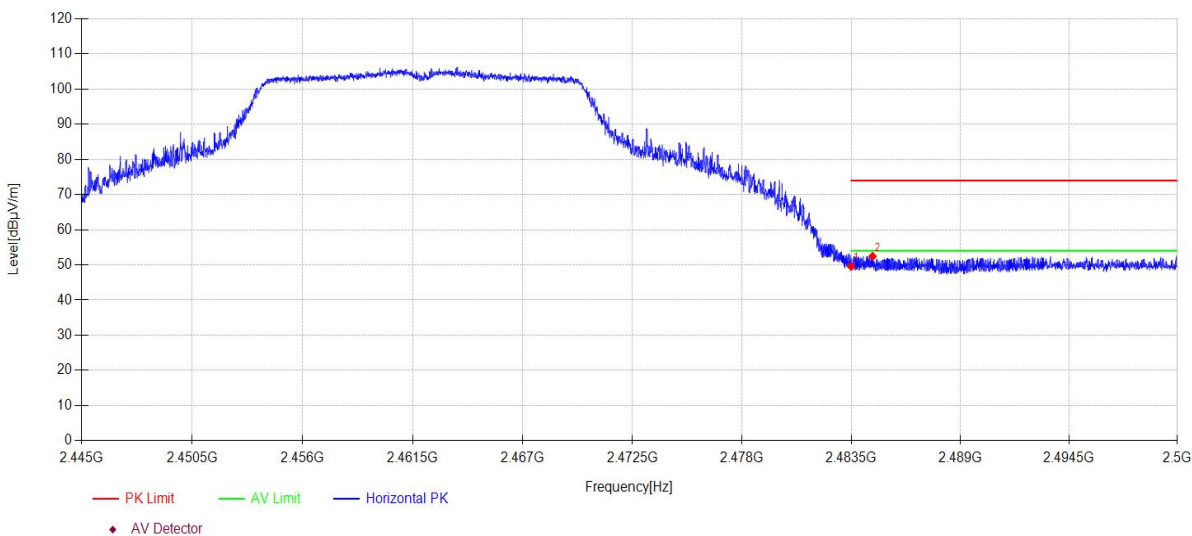
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11G ANT1 TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\67
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	18.12	27.53	3.94	0.00	49.59	74.00	24.41	PK	Horizontal
2	2484.58	20.97	27.54	3.94	0.00	52.45	74.00	21.55	PK	Horizontal

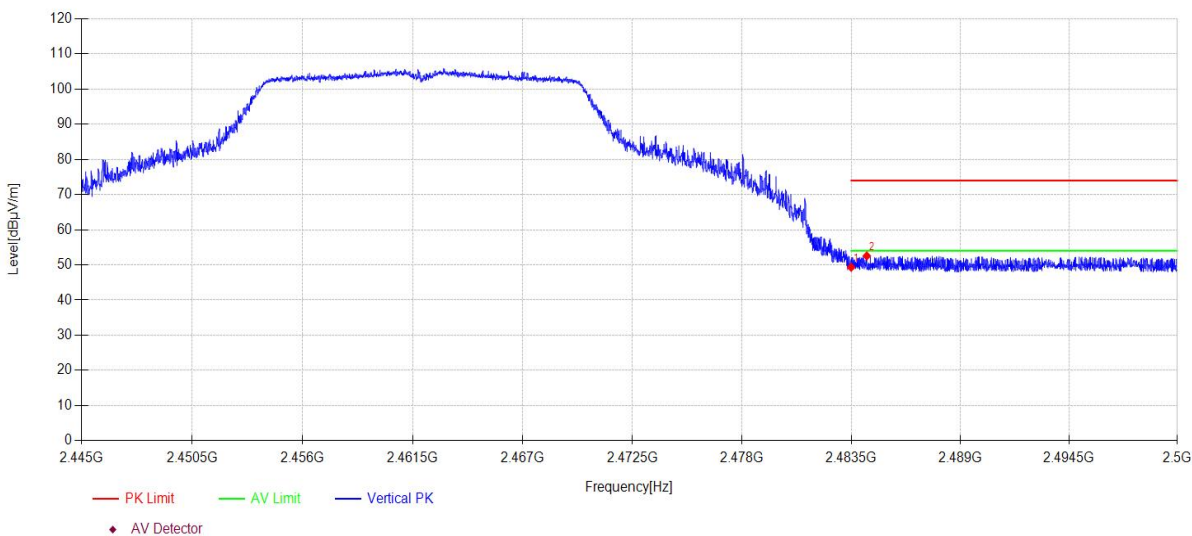
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11G ANT1 TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\68
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	17.86	27.53	3.94	0.00	49.33	74.00	24.67	PK	Vertical
2	2484.29	21.08	27.54	3.94	0.00	52.56	74.00	21.44	PK	Vertical

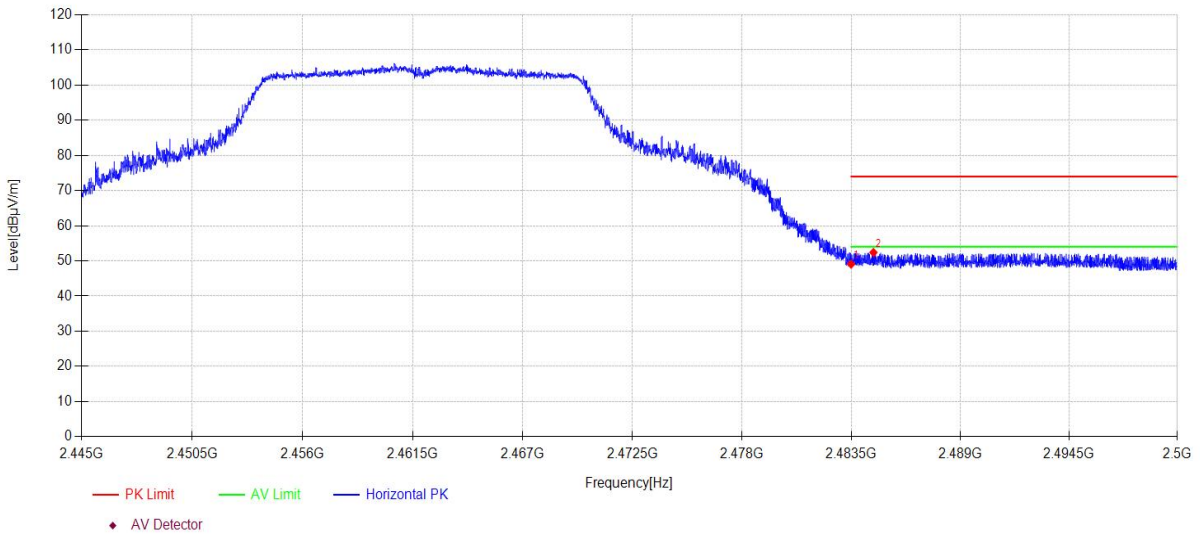
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11G ANT2 TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\69
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	17.60	27.53	3.94	0.00	49.07	74.00	24.93	PK	Horizontal
2	2484.63	20.92	27.54	3.94	0.00	52.40	74.00	21.60	PK	Horizontal

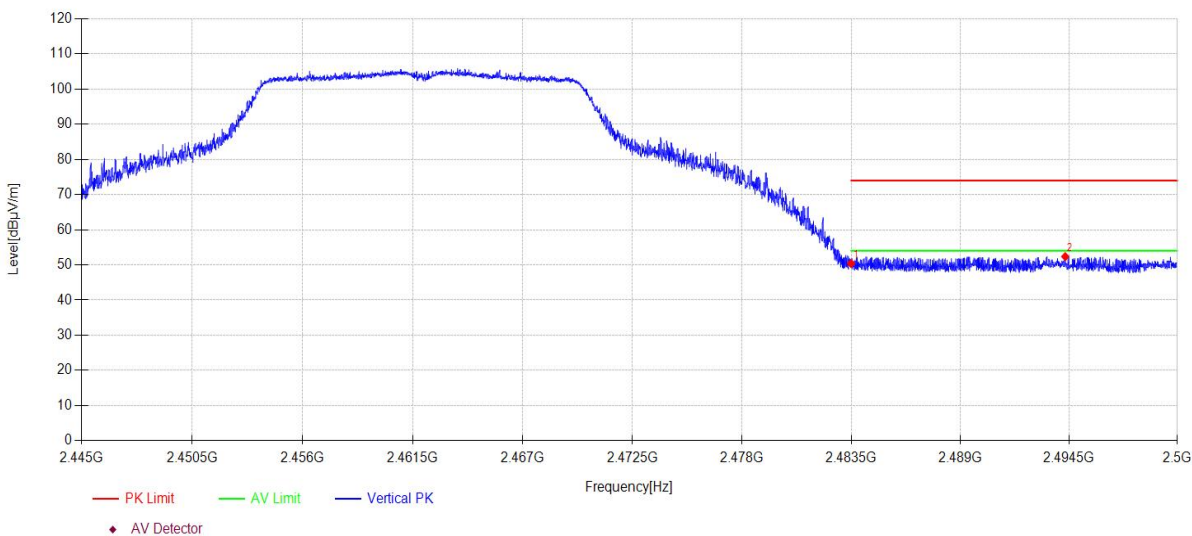
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11G ANT2 TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI70
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	18.93	27.53	3.94	0.00	50.40	74.00	23.60	PK	Vertical
2	2494.32	20.83	27.58	3.95	0.00	52.36	74.00	21.64	PK	Vertical

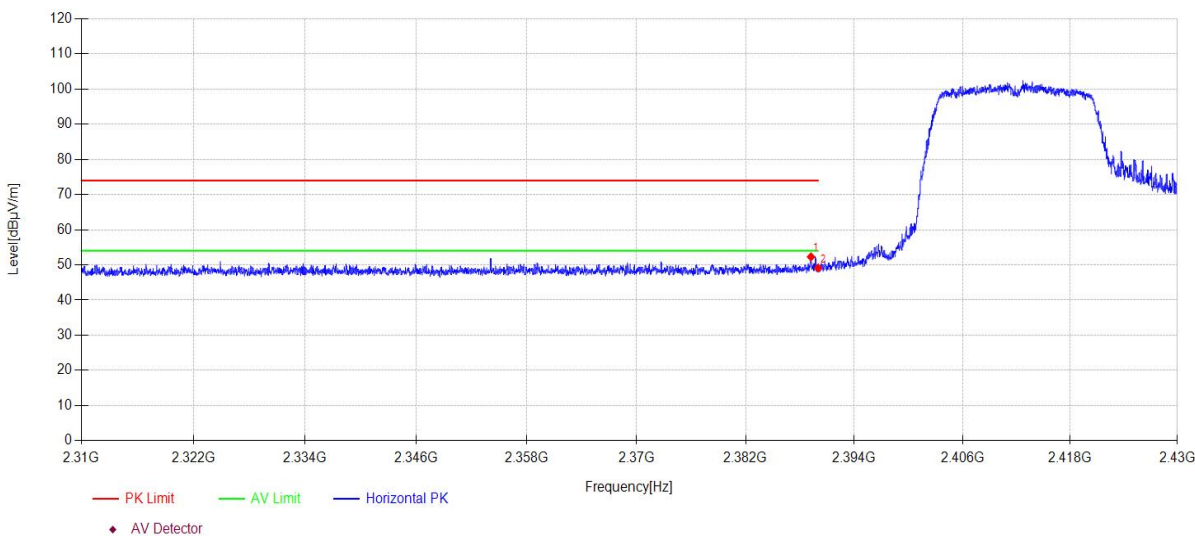
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11N20MIMO TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi71
Memo: Sample Number:S23111605-03 Power Setting:18

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	2389.21	21.16	27.26	3.87	0.00	52.29	74.00	21.71	PK	Horizontal
2	2390.00	18.00	27.26	3.87	0.00	49.13	74.00	24.87	PK	Horizontal

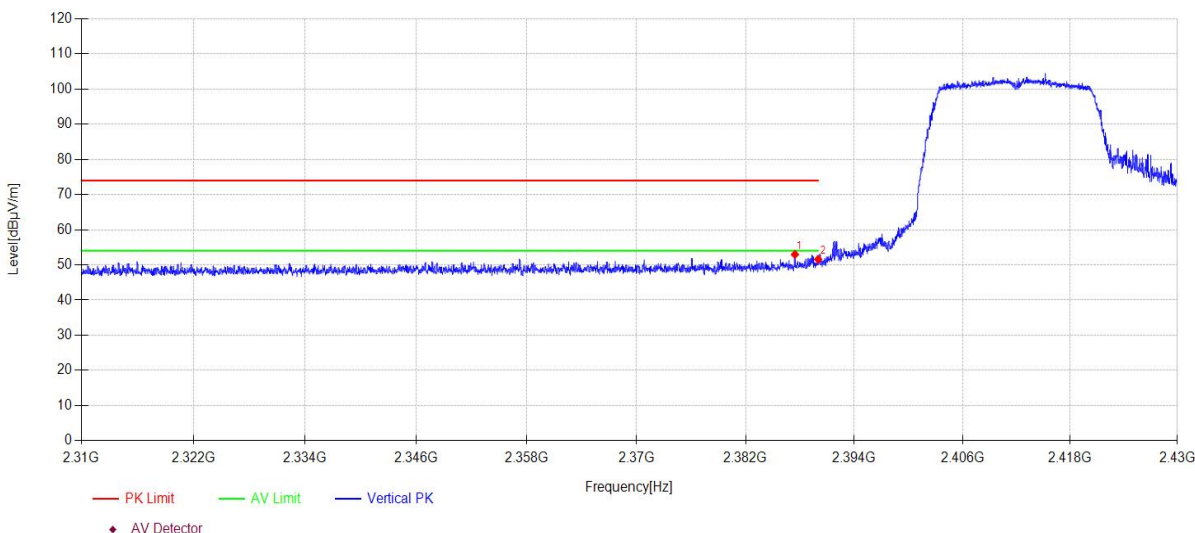
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11N20MIMO TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI72
Memo: Sample Number:S23111605-03 Power Setting:18

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	2387.44	21.86	27.25	3.86	0.00	52.97	74.00	21.03	PK	Vertical
2	2390.00	20.46	27.26	3.87	0.00	51.59	74.00	22.41	PK	Vertical

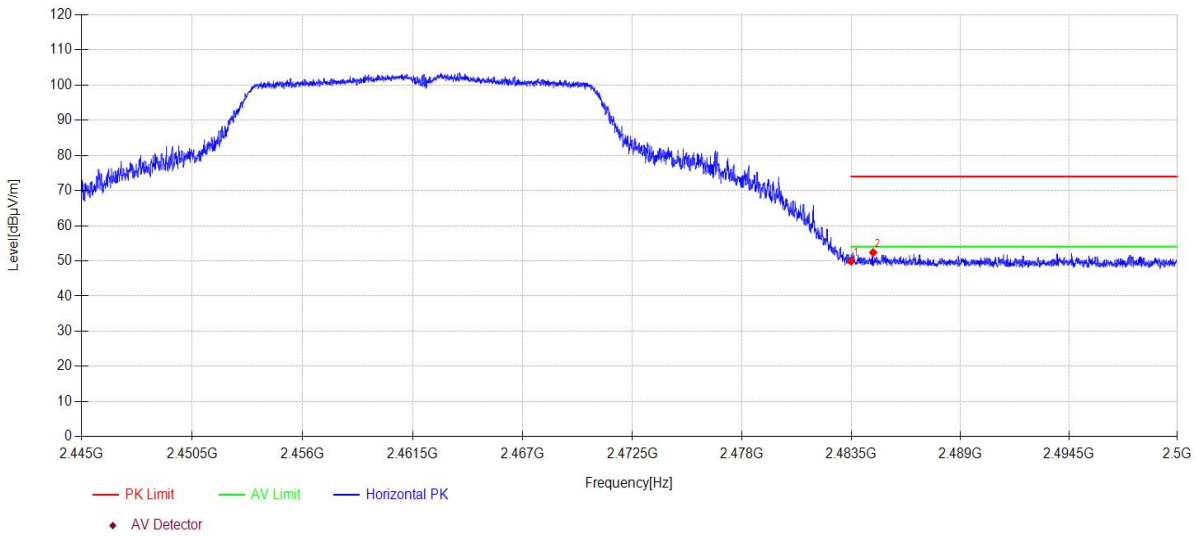
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11N20MIMO TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI73
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	18.43	27.53	3.94	0.00	49.90	74.00	24.10	PK	Horizontal
2	2484.61	20.90	27.54	3.94	0.00	52.38	74.00	21.62	PK	Horizontal

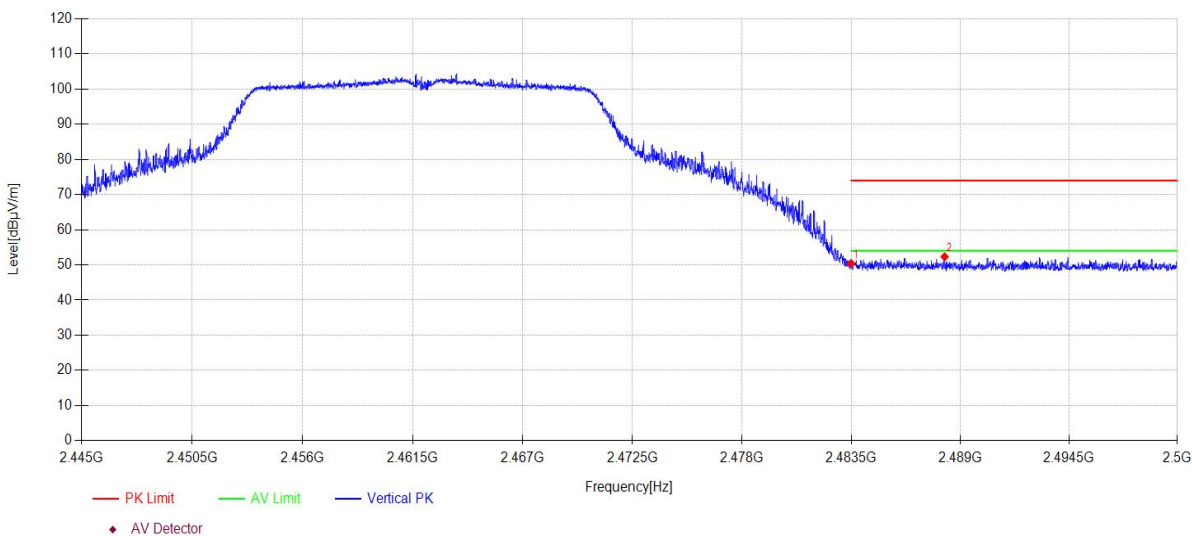
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11N20MIMO TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\74
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	18.94	27.53	3.94	0.00	50.41	74.00	23.59	PK	Vertical
2	2488.22	20.83	27.55	3.94	0.00	52.32	74.00	21.68	PK	Vertical

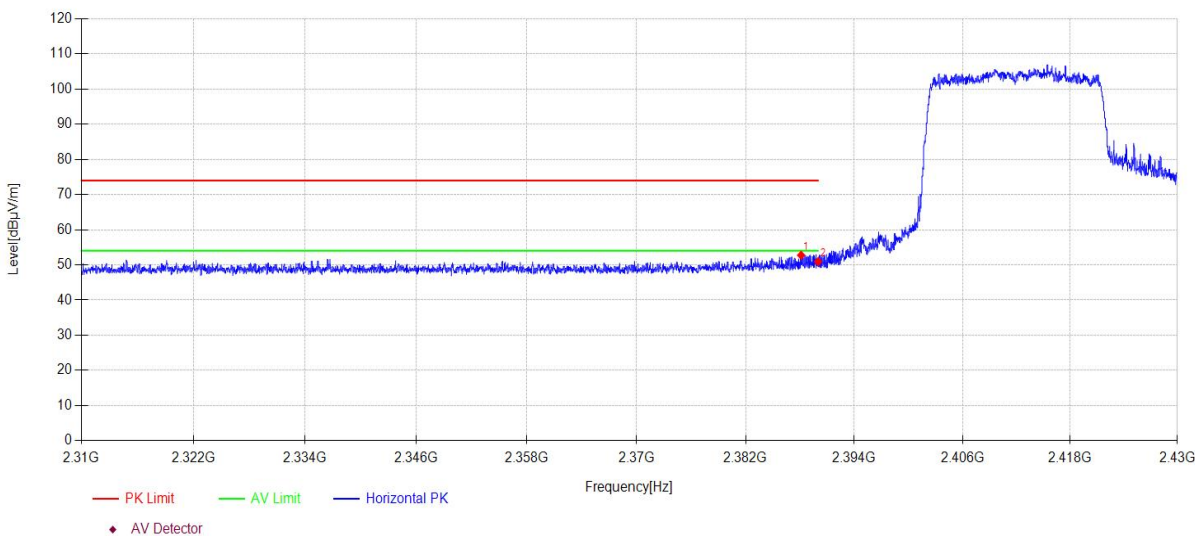
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI75
Memo: Sample Number:S23111605-03 Power Setting:18

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	2388.12	21.65	27.25	3.86	0.00	52.76	74.00	21.24	PK	Horizontal
2	2390.00	19.80	27.26	3.87	0.00	50.93	74.00	23.07	PK	Horizontal

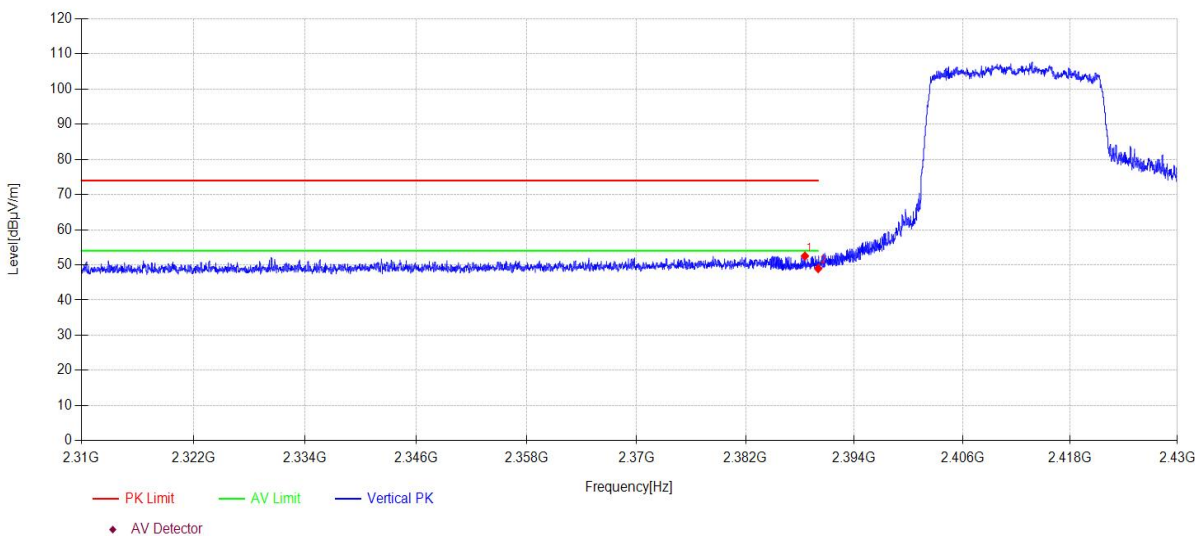
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2412MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI76
Memo: Sample Number:S23111605-03 Power Setting:18

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	2388.54	21.40	27.25	3.87	0.00	52.52	74.00	21.48	PK	Vertical
2	2390.00	17.83	27.26	3.87	0.00	48.96	74.00	25.04	PK	Vertical

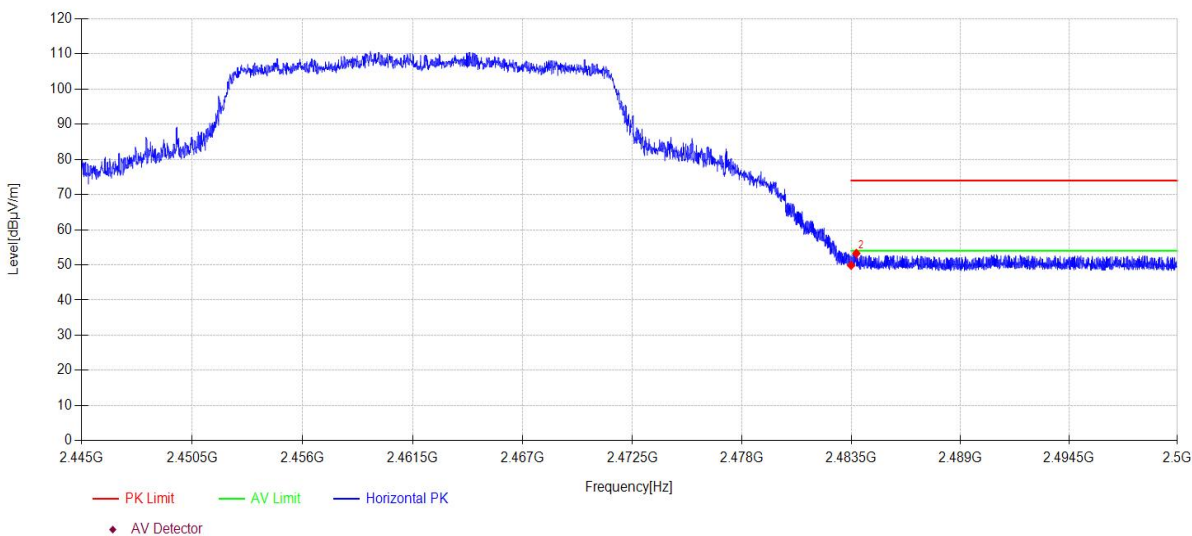
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\77
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	18.39	27.53	3.94	0.00	49.86	74.00	24.14	PK	Horizontal
2	2483.76	21.79	27.54	3.94	0.00	53.27	74.00	20.73	PK	Horizontal

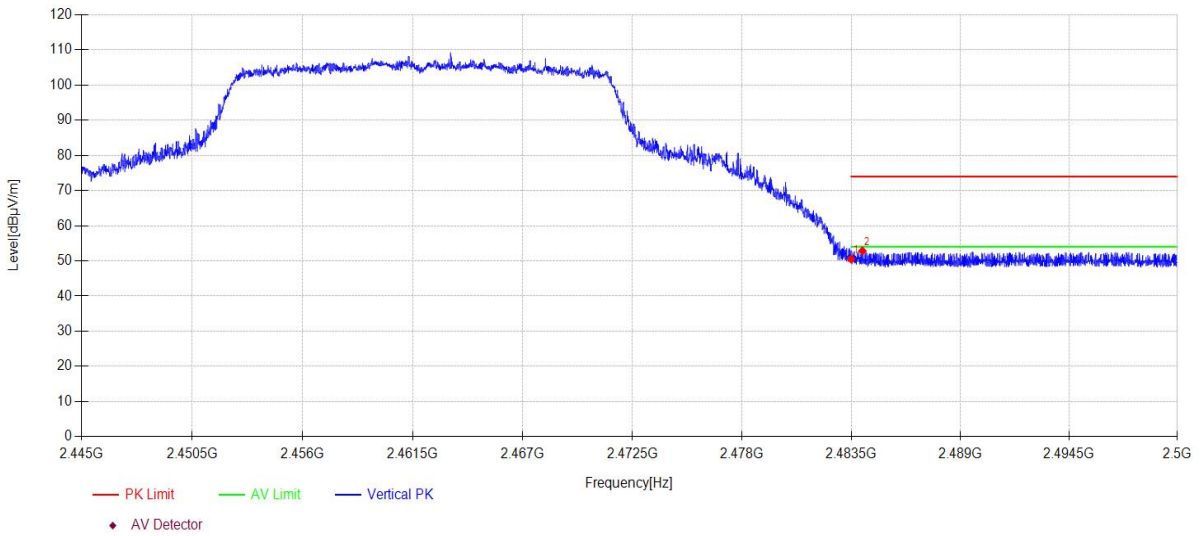
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX20MIMO TX 2462MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI78
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	19.07	27.53	3.94	0.00	50.54	74.00	23.46	PK	Vertical
2	2484.07	21.39	27.54	3.94	0.00	52.87	74.00	21.13	PK	Vertical

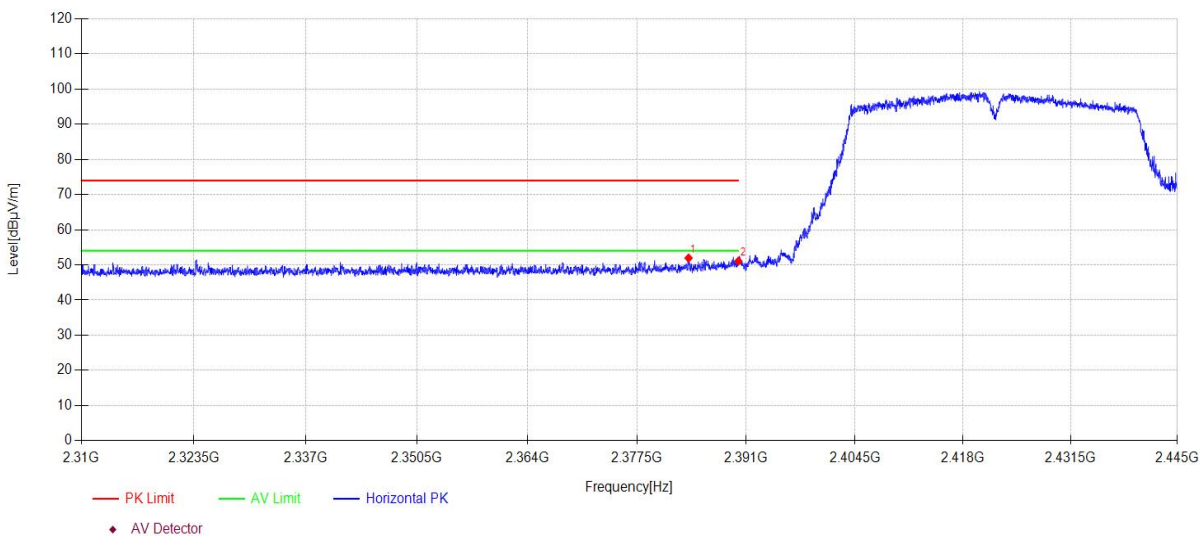
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AC40MIMO TX 2422MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi79
Memo: Sample Number:S23111605-03 Power Setting:18

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	2383.85	20.84	27.24	3.86	0.00	51.94	74.00	22.06	PK	Horizontal
2	2390.00	19.94	27.26	3.87	0.00	51.07	74.00	22.93	PK	Horizontal

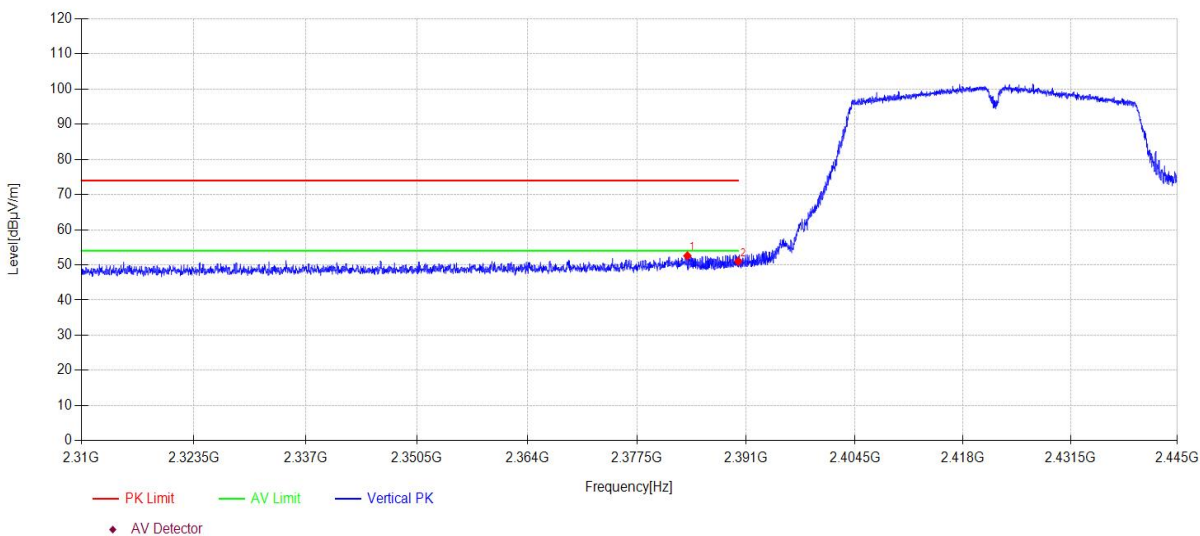
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AC40MIMO TX 2422MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\80
Memo: Sample Number:S23111605-03 Power Setting:18

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	2383.71	21.49	27.23	3.86	0.00	52.58	74.00	21.42	PK	Vertical
2	2390.00	19.88	27.26	3.87	0.00	51.01	74.00	22.99	PK	Vertical

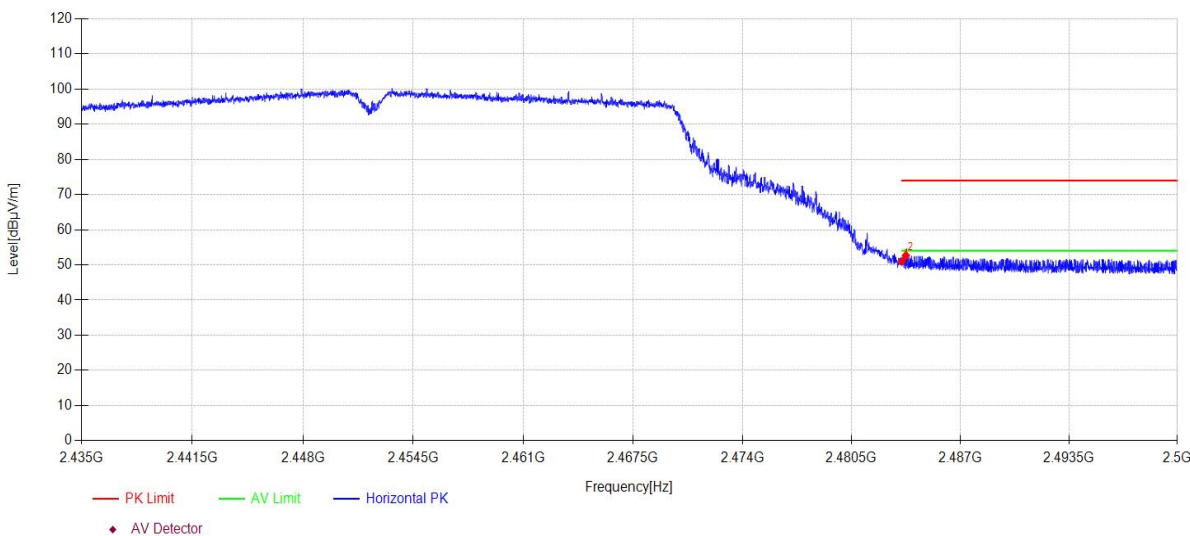
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AC40MIMO TX 2452MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\81
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	19.50	27.53	3.94	0.00	50.97	74.00	23.03	PK	Horizontal
2	2483.74	21.22	27.53	3.94	0.00	52.69	74.00	21.31	PK	Horizontal

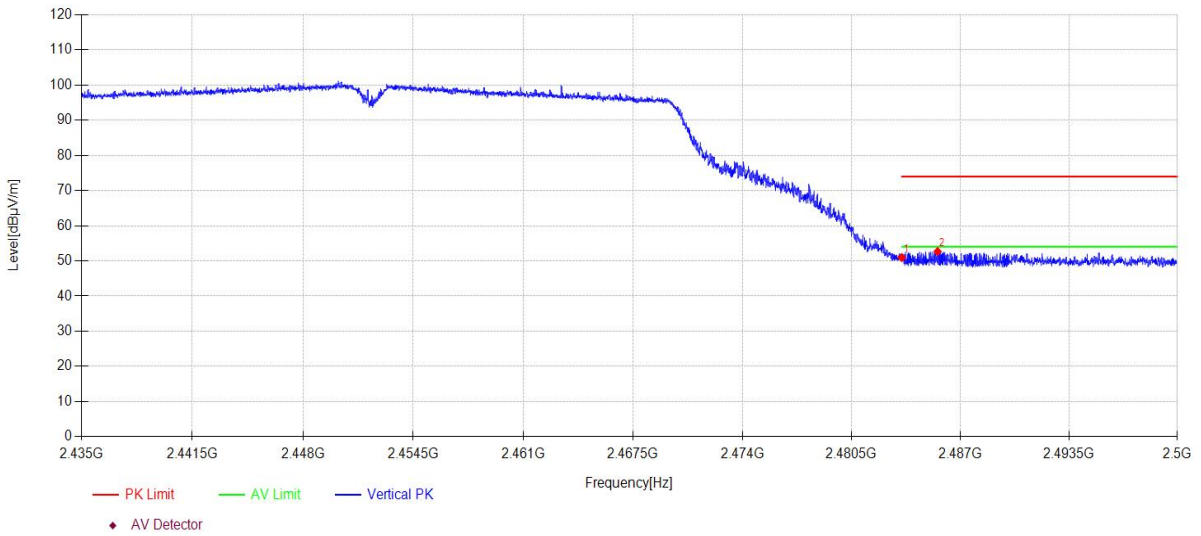
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AC40MIMO TX 2452MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\82
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	19.48	27.53	3.94	0.00	50.95	74.00	23.05	PK	Vertical
2	2485.64	21.19	27.54	3.94	0.00	52.67	74.00	21.33	PK	Vertical

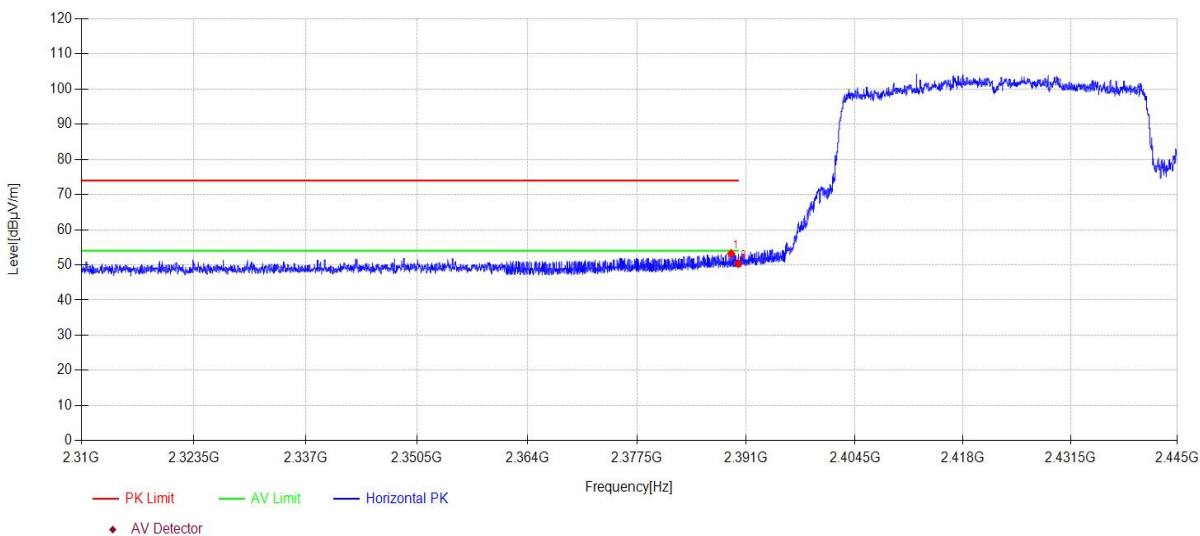
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX40MIMO TX 2422MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWiFi\83
Memo: Sample Number:S23111605-03 Power Setting:18

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	2389.11	22.06	27.26	3.87	0.00	53.19	74.00	20.81	PK	Horizontal
2	2390.00	19.26	27.26	3.87	0.00	50.39	74.00	23.61	PK	Horizontal

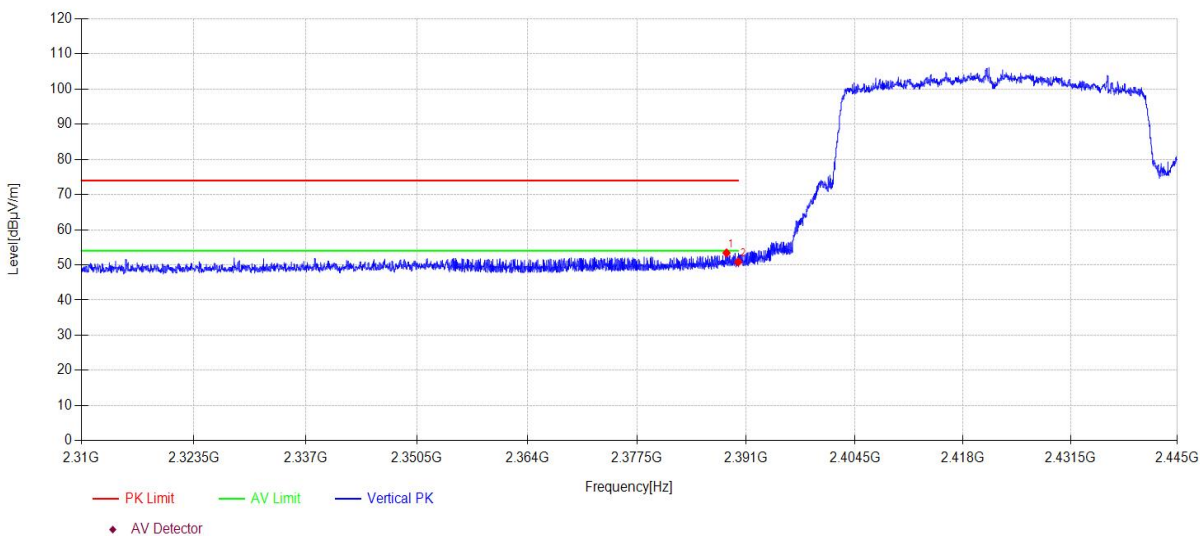
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX40MIMO TX 2422MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\84
Memo: Sample Number:S23111605-03 Power Setting:18

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	2388.54	22.29	27.25	3.87	0.00	53.41	74.00	20.59	PK	Vertical
2	2390.00	19.71	27.26	3.87	0.00	50.84	74.00	23.16	PK	Vertical

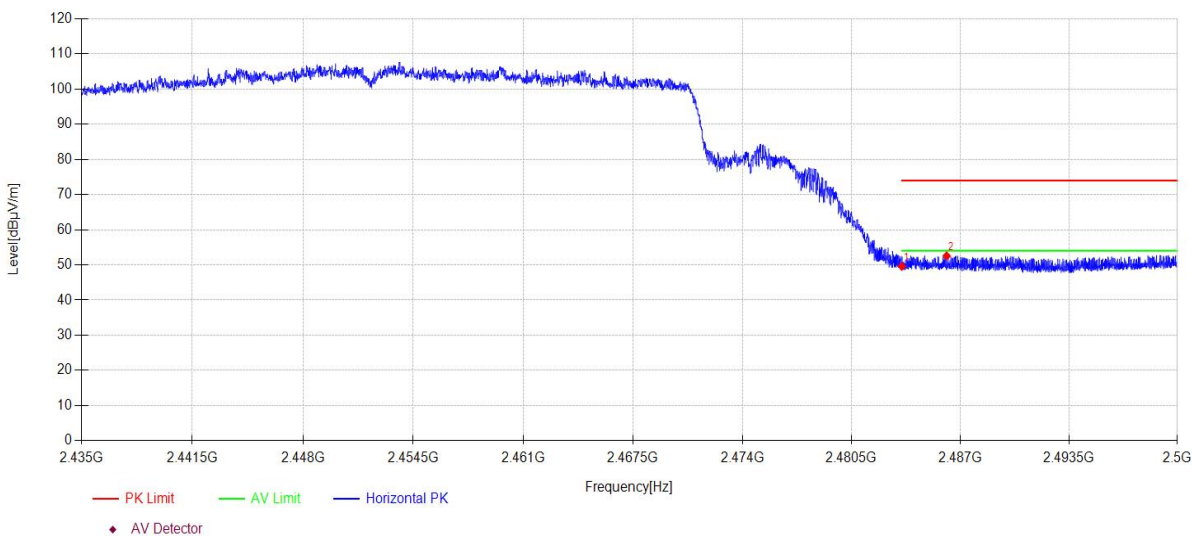
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX40MIMO TX 2452MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\85
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	18.13	27.53	3.94	0.00	49.60	74.00	24.40	PK	Horizontal
2	2486.17	21.08	27.54	3.94	0.00	52.56	74.00	21.44	PK	Horizontal

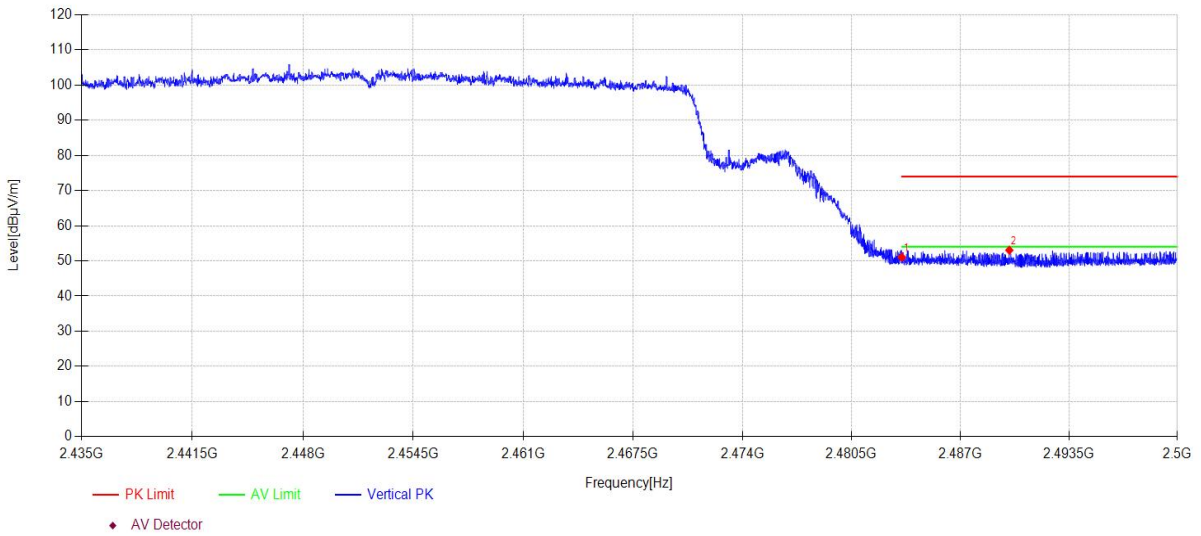
Note:

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: 2024-01-24 **Tested By:** Bairong
EUT: Mercku M6s Nano Mesh Wi-Fi Router **Model Number:** MBAA0
Test Mode: 11AX40MIMO TX 2452MHz **Power Supply:** AC 120V/60Hz
Condition: Temp:25.6°C;Humi:56.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23111605-2E MBAA0\FCC ABOVE 1G 2.4GWIFI\86
Memo: Sample Number:S23111605-03 Power Setting:18

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	2483.50	19.58	27.53	3.94	0.00	51.05	74.00	22.95	PK	Vertical
2	2489.93	21.55	27.56	3.94	0.00	53.05	74.00	20.95	PK	Vertical

Note:

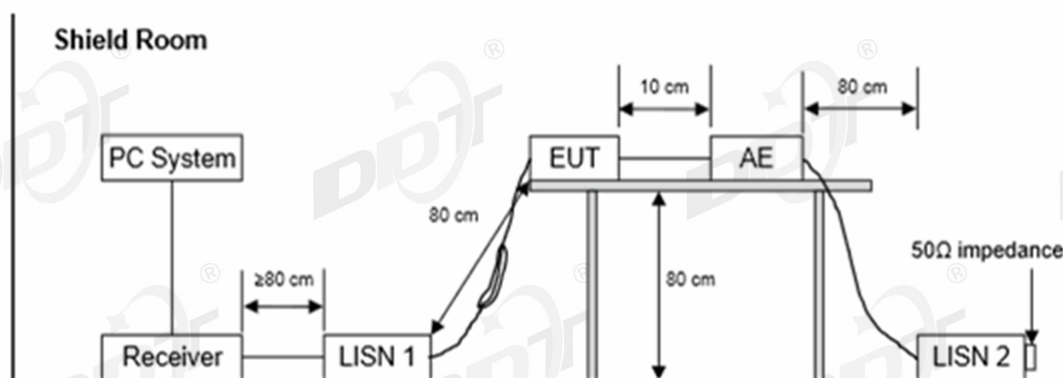
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Power Line Conducted Emissions

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Two Line V-Network	R&S	ENV216	DDT-ZC00535	2024/07/10
CE Cable 1	R&S	ESU8/RF2	DDT-ZC00566	2024/07/14
EMI Test Receiver	R&S	ESCI	DDT-ZC00235	2024/07/10
Artificial mains	R&S	ESH2-Z5	DDT-ZC00538	2024/07/11
Pulse Limiter	SCHWARZBEC K	ESH3-Z2	DDT-ZC00539	2024/07/14
EMI Test Software	Audix/TW	e3	DDT-ZC01252	/

13.2. Block diagram of test setup



13.3. Limits

Frequency	Quasi-Peak Level dB(mV)	Average Level dB(mV)
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.

13.4. Assistant equipment used for test

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

13.5. 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.

13.6. Test result

PASS. (See below detailed test result)

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

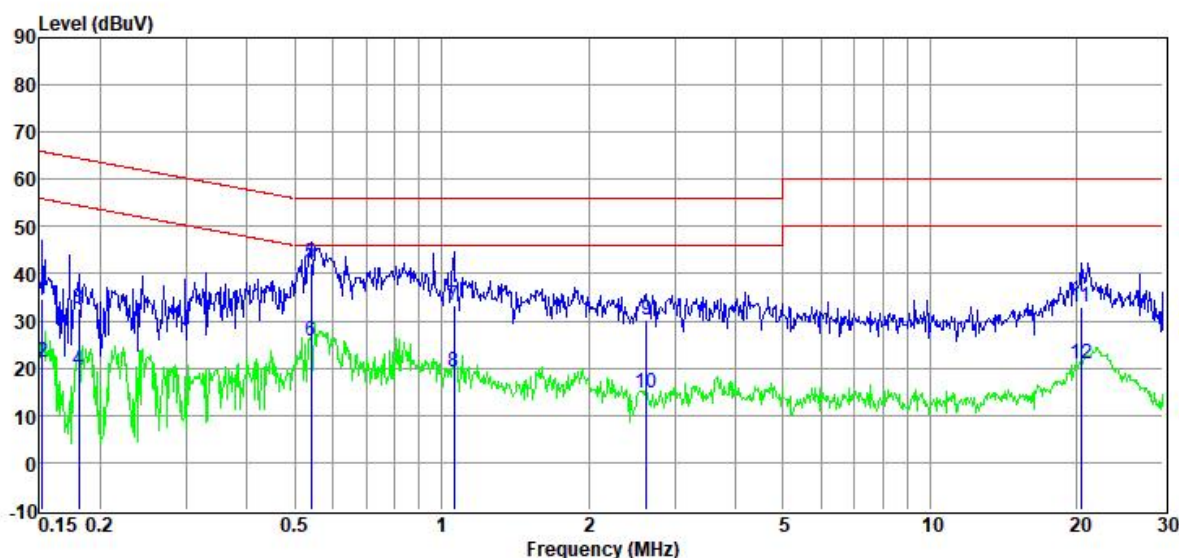
Note2: "----" means Peak detection; "----" means Average detection.

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

13.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room D:\2024 CE report data\Q23111605-2E MBAA0\FCC CE.EM6
Test Date : 2024-02-20 **Tested By** : Bairong
EUT : Mercku M6s Nano Mesh Wi-Fi Router **Model Number** : MBAA0
Power Supply : AC 120V/60Hz **Test Mode** : 2.4GWIFI mode
Condition : TEMP:22.3°C, RH:56.5% **LISN** : 2023 1# ENV216/NEUTRAL
Memo : Sample Number:S23111605-03



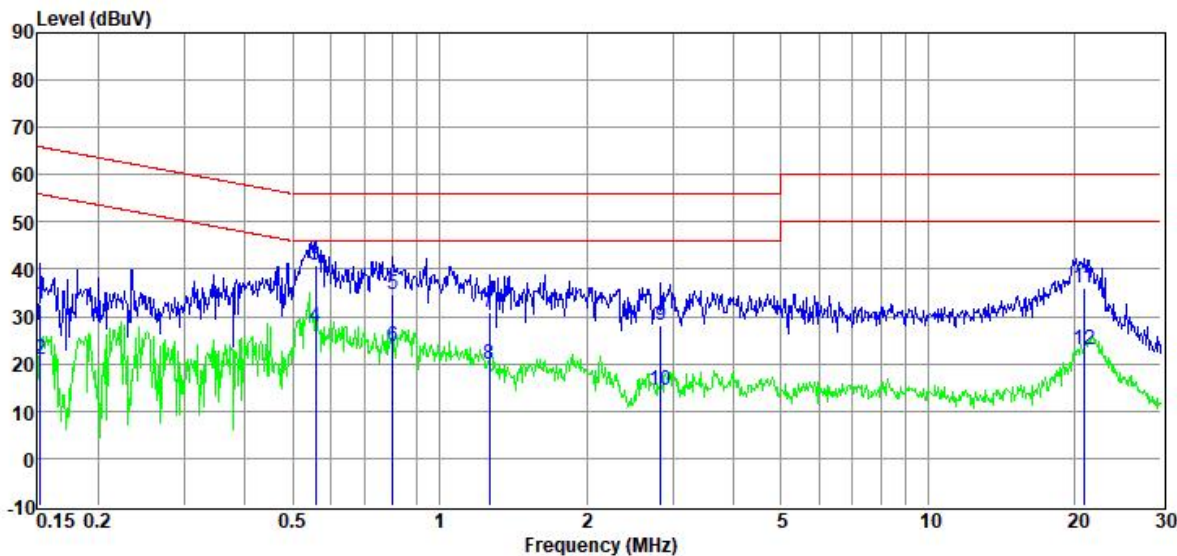
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	14.38	9.84	0.92	9.68	34.82	65.87	-31.05	QP	NEUTRAL
2	0.15	0.74	9.84	0.92	9.68	21.18	55.87	-34.69	Average	NEUTRAL
3	0.18	12.35	9.82	0.91	9.69	32.77	64.46	-31.69	QP	NEUTRAL
4	0.18	-0.96	9.82	0.91	9.69	19.46	54.46	-35.00	Average	NEUTRAL
5	0.54	21.82	9.81	0.84	9.71	42.18	56.00	-13.82	QP	NEUTRAL
6	0.54	5.34	9.81	0.84	9.71	25.70	46.00	-20.30	Average	NEUTRAL
7	1.06	13.31	9.74	0.67	9.73	33.45	56.00	-22.55	QP	NEUTRAL
8	1.06	-0.93	9.74	0.67	9.73	19.21	46.00	-26.79	Average	NEUTRAL
9	2.62	10.03	9.72	0.61	9.77	30.13	56.00	-25.87	QP	NEUTRAL
10	2.62	-5.51	9.72	0.61	9.77	14.59	46.00	-31.41	Average	NEUTRAL
11	20.38	12.92	9.90	0.33	9.92	33.07	60.00	-26.93	QP	NEUTRAL
12	20.38	0.71	9.90	0.33	9.92	20.86	50.00	-29.14	Average	NEUTRAL

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room D:\2024 CE report data\Q23111605-2E MBAA0\FCC CE.EM6
Test Date : 2024-02-20 **Tested By** : Bairong
EUT : Mercku M6s Nano Mesh Wi-Fi Router **Model Number** : MBAA0
Power Supply : AC 120V/60Hz **Test Mode** : 2.4GWIFI mode
Condition : TEMP:22.3°C, RH:56.5% **LISN** : 2023 1# ENV216/LINE
Memo : Sample Number:S23111605-03



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	12.21	9.84	0.92	9.68	32.65	65.87	-33.22	QP	LINE
2	0.15	0.34	9.84	0.92	9.68	20.78	55.87	-35.09	Average	LINE
3	0.56	20.36	9.80	0.84	9.71	40.71	56.00	-15.29	QP	LINE
4	0.56	7.48	9.80	0.84	9.71	27.83	46.00	-18.17	Average	LINE
5	0.80	14.43	9.82	0.74	9.72	34.71	56.00	-21.29	QP	LINE
6	0.80	3.36	9.82	0.74	9.72	23.64	46.00	-22.36	Average	LINE
7	1.26	10.86	9.68	0.66	9.74	30.94	56.00	-25.06	QP	LINE
8	1.26	-0.11	9.68	0.66	9.74	19.97	46.00	-26.03	Average	LINE
9	2.84	8.07	9.66	0.60	9.77	28.10	56.00	-27.90	QP	LINE
10	2.84	-5.61	9.66	0.60	9.77	14.42	46.00	-31.58	Average	LINE
11	20.81	15.79	9.95	0.35	9.92	36.01	60.00	-23.99	QP	LINE
12	20.81	2.90	9.95	0.35	9.92	23.12	50.00	-26.88	Average	LINE

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

15. Photos of the EUT

Please refer to DDT-Q23111605-1E appendix I

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