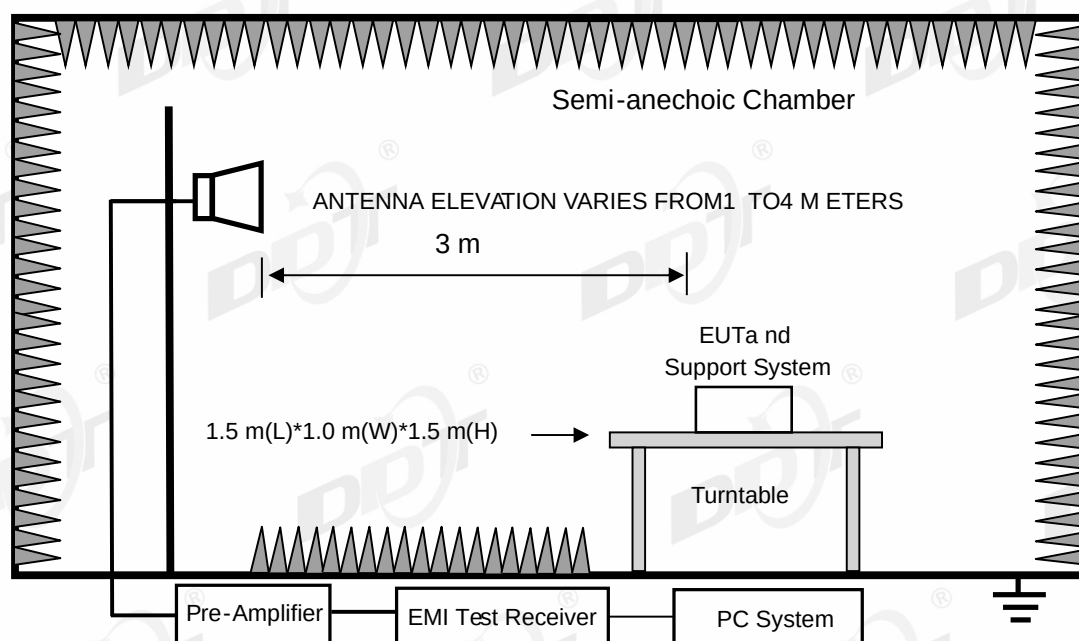


13. Band Edge Compliance

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2026/03/28
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/11
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

13.2. Block diagram of test setup



13.3. 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.

13.4. Assistant equipment used for test

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

13.5. Test procedure

Same with Radiated Emission except change investigated frequency range.

Remark:All restriction band have been tested, and only the worst case is shown in report. According to the results of the radiated Emission test, it can be judged that the Horizontal direction is the Worst case.

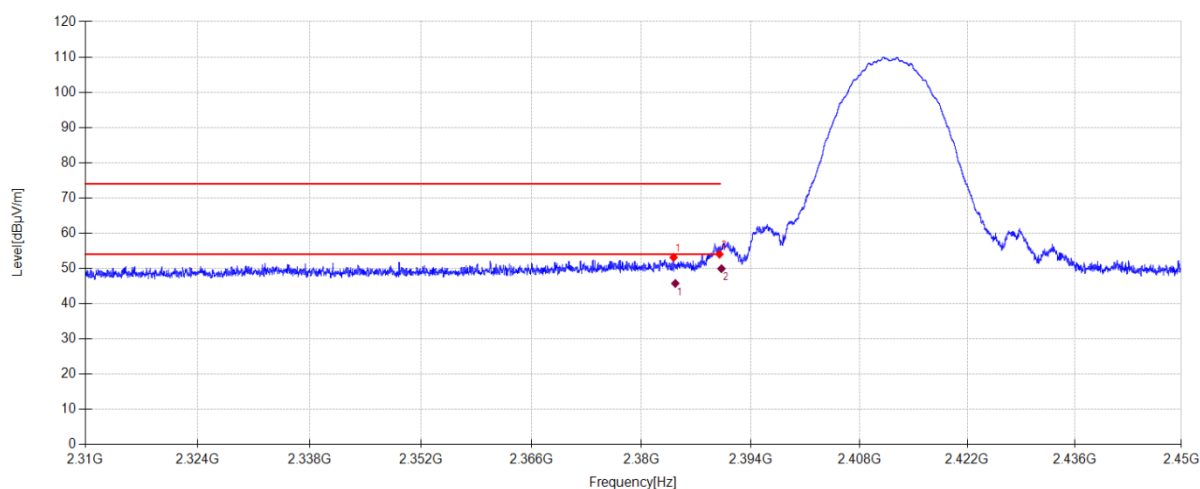
13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-10 **Tested By:** Lin Guoyuan
EUT: Wireless Access Point **Model Number:** L2531
Test Mode: ANT1 TX 11B 2412MHz Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:44.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\20
Memo: Sample Number:S25061924-001 Power Setting:21



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2384.116	22.31	27.24	3.57	0.00	53.12	74.00	20.88	PK	Horizontal
2	2390.000	23.18	27.26	3.57	0.00	54.01	74.00	19.99	PK	Horizontal

Final Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2384.339	14.92	27.24	3.57	45.73	54.00	8.27	AV	Horizontal
2	2390.250	19.09	27.26	3.57	49.92	54.00	4.08	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

ANT1 TX 11B 2462MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

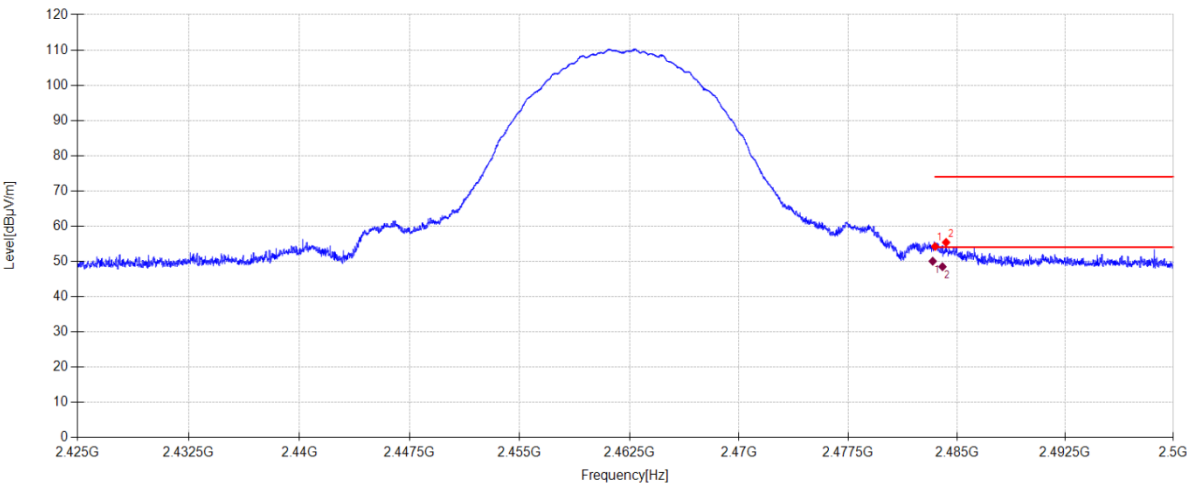
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\21

Memo:

Sample Number:S25061924-001 Power Setting:21



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	23.06	27.53	3.62	0.00	54.21	74.00	19.79	PK	Horizontal
2	2484.258	24.23	27.54	3.62	0.00	55.39	74.00	18.61	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.340	18.90	27.53	3.62	50.05	54.00	3.95	AV	Horizontal	
2	2484.011	17.33	27.54	3.62	48.49	54.00	5.51	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

ANT2 TX 11B 2412MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

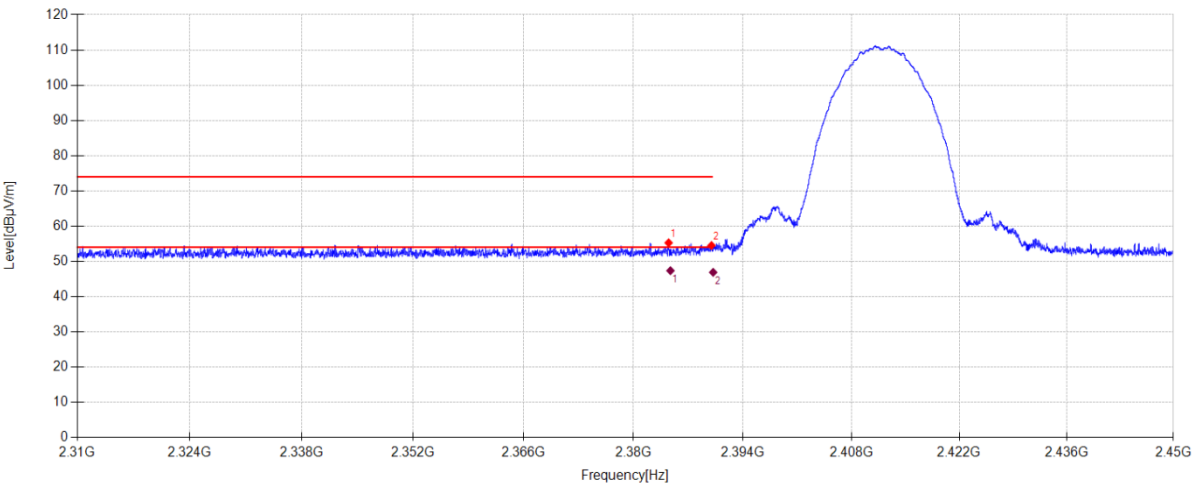
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\23

Memo:

Sample Number:S25061924-001 Power Setting:22.5



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2384.508	24.46	27.24	3.57	0.00	55.27	74.00	18.73	PK	Horizontal
2	2390.000	23.69	27.26	3.57	0.00	54.52	74.00	19.48	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2384.740	16.56	27.24	3.57	47.37	54.00	6.63	AV	Horizontal	
2	2390.216	16.07	27.26	3.57	46.90	51.97	5.07	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

ANT2 TX 11B 2462MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

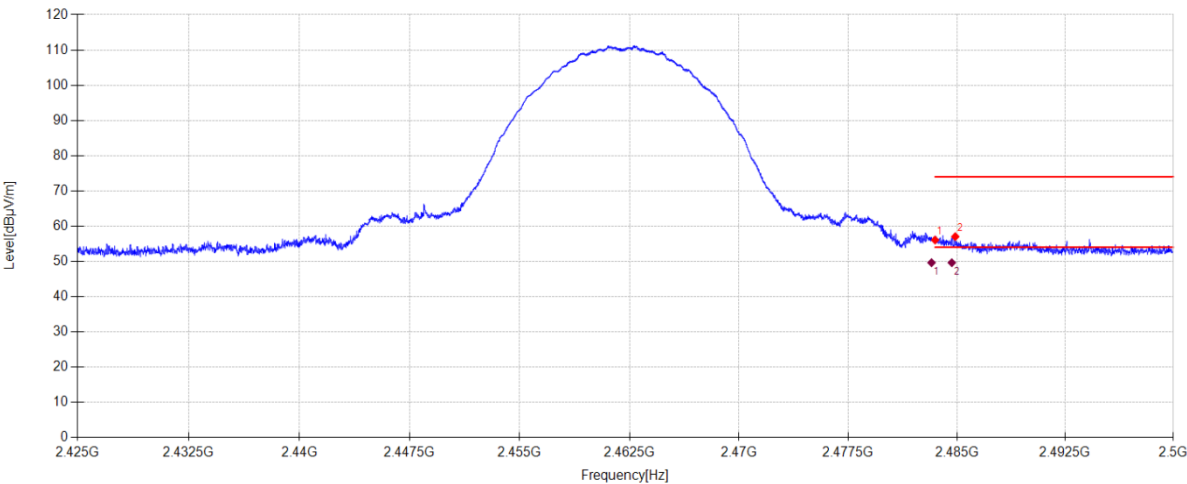
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\22

Memo:

Sample Number:S25061924-001 Power Setting:22.5



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	24.92	27.53	3.62	0.00	56.07	74.00	17.93	PK	Horizontal
2	2484.895	25.87	27.54	3.62	0.00	57.03	74.00	16.97	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.254	18.49	27.53	3.62	49.64	54.00	4.36	AV	Horizontal	
2	2484.655	18.47	27.54	3.62	49.63	54.00	4.37	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

ANT1 TX 11G 2412MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

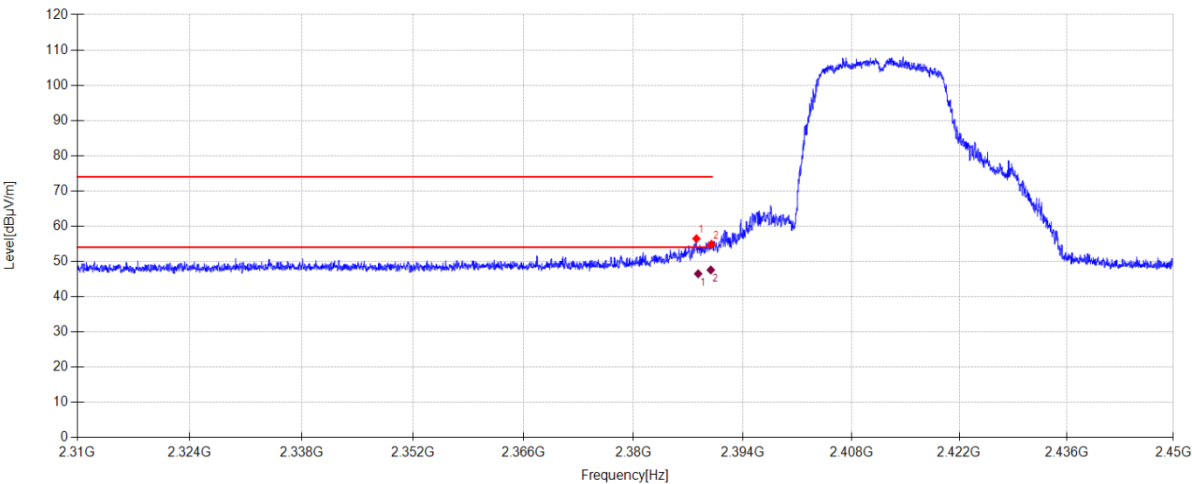
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\26

Memo:

Sample Number:S25061924-001 Power Setting:17.5



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.064	25.63	27.25	3.57	0.00	56.45	74.00	17.55	PK	Horizontal
2	2390.000	24.04	27.26	3.57	0.00	54.87	74.00	19.13	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2388.288	15.67	27.25	3.57	46.49	54.00	7.51	AV	Horizontal	
2	2389.910	16.74	27.26	3.57	47.57	54.00	6.43	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

ANT1 TX 11G 2462MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

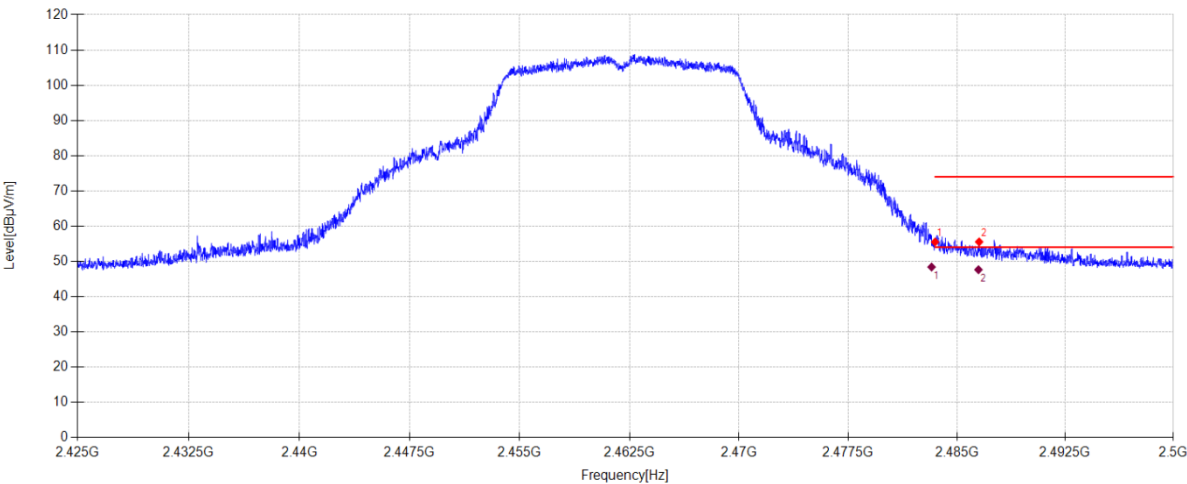
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25061924-001 Power Setting:17.5



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	24.36	27.53	3.62	0.00	55.51	74.00	18.49	PK	Horizontal
2	2486.545	24.37	27.55	3.62	0.00	55.54	74.00	18.46	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.261	17.26	27.53	3.62	48.41	53.99	5.58	AV	Horizontal	
2	2486.498	16.47	27.55	3.62	47.64	54.00	6.36	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

ANT2 TX 11G 2412MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

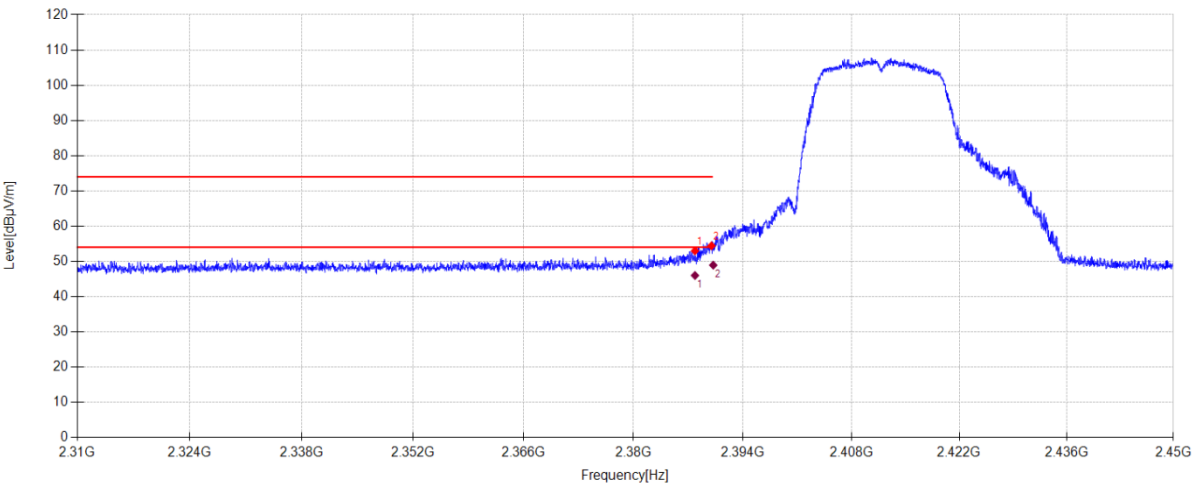
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25061924-001 Power Setting:17.5



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.882	22.17	27.25	3.57	0.00	52.99	74.00	21.01	PK	Horizontal
2	2390.000	23.60	27.26	3.57	0.00	54.43	74.00	19.57	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2387.882	15.19	27.25	3.57	46.01	54.00	7.99	AV	Horizontal	
2	2390.225	18.10	27.26	3.57	48.93	54.00	5.07	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

ANT2 TX 11G 2462MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

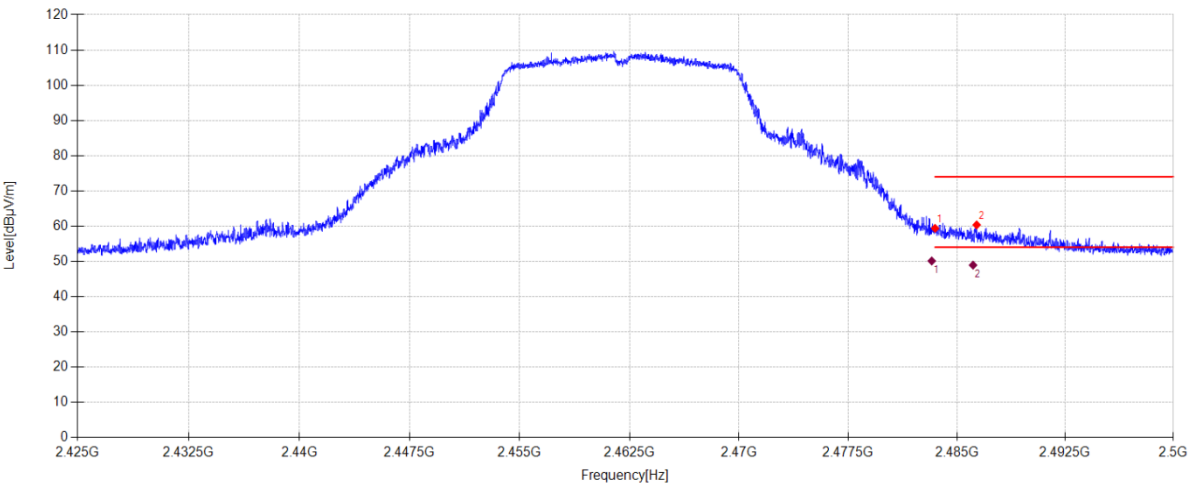
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\24

Memo:

Sample Number:S25061924-001 Power Setting:17.5



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	28.24	27.53	3.62	0.00	59.39	74.00	14.61	PK	Horizontal
2	2486.373	29.18	27.55	3.62	0.00	60.35	74.00	13.65	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.271	18.98	27.53	3.62	50.13	54.00	3.87	AV	Horizontal	
2	2486.124	17.77	27.55	3.62	48.94	54.00	5.06	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

MIMO TX 11N20 2412MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

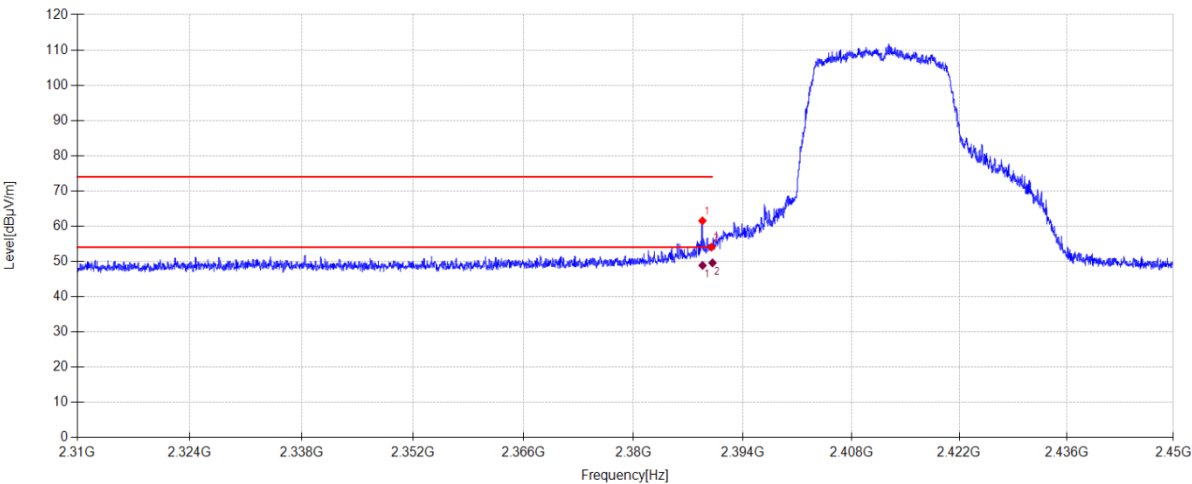
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\29

Memo:

Sample Number:S25061924-001 Power Setting:17



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.834	30.69	27.26	3.57	0.00	61.52	74.00	12.48	PK	Horizontal
2	2390.000	23.23	27.26	3.57	0.00	54.06	74.00	19.94	PK	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2388.856	18.02	27.26	3.57	48.85	54.00	5.15	AV	Horizontal	
2	2390.126	18.74	27.26	3.57	49.57	54.00	4.43	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

MIMO TX 11N20 2462MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

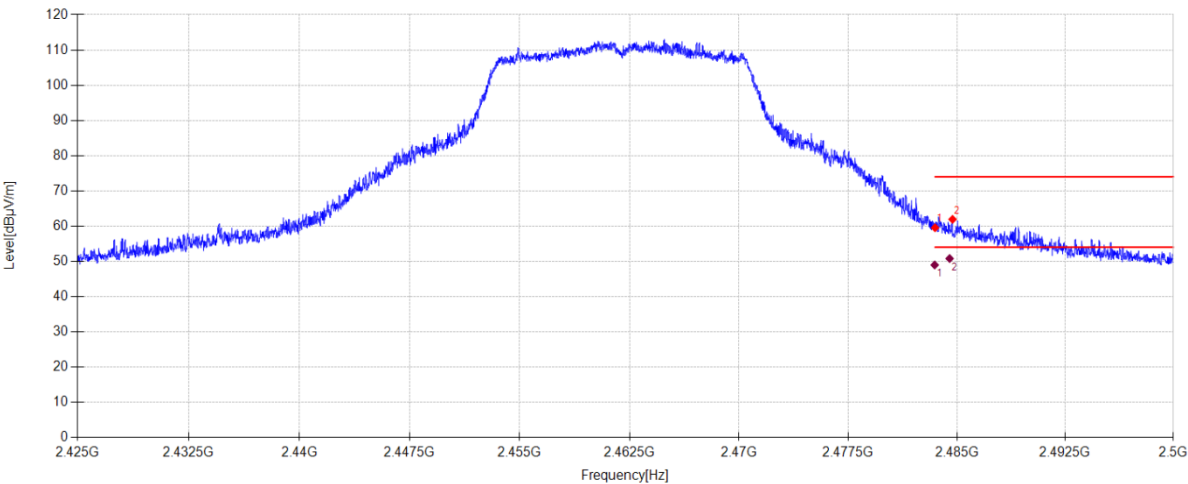
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\28

Memo:

Sample Number:S25061924-001 Power Setting:17



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	28.40	27.53	3.62	0.00	59.55	74.00	14.45	PK	Horizontal
2	2484.708	30.78	27.54	3.62	0.00	61.94	74.00	12.06	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.474	17.84	27.53	3.62	48.99	54.00	5.01	AV	Horizontal	
2	2484.505	19.65	27.54	3.62	50.81	54.00	3.19	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

MIMO TX 11N40 2422MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

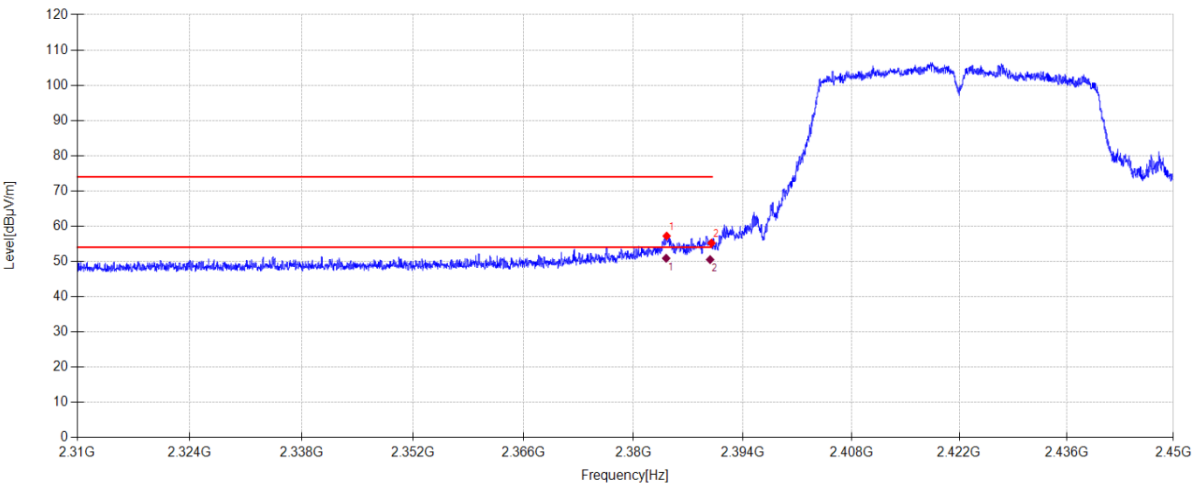
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\30

Memo:

Sample Number:S25061924-001 Power Setting:15



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2384.256	26.39	27.24	3.57	0.00	57.20	74.00	16.80	PK	Horizontal
2	2390.000	24.38	27.26	3.57	0.00	55.21	74.00	18.79	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2384.189	20.08	27.24	3.57	50.89	54.00	3.11	AV	Horizontal	
2	2389.823	19.68	27.26	3.57	50.51	54.00	3.49	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

MIMO TX 11N40 2452MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

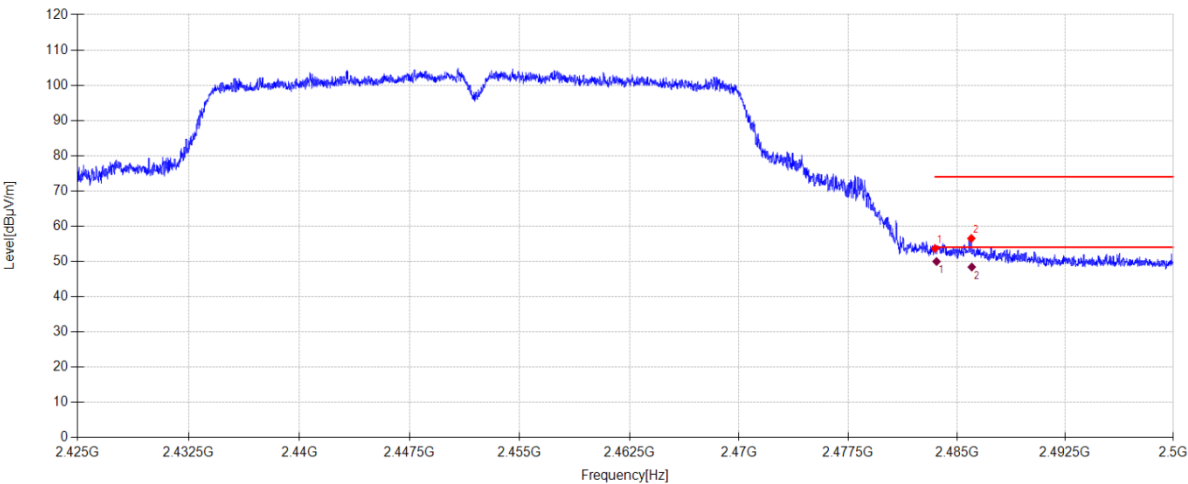
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\31

Memo:

Sample Number:S25061924-001 Power Setting:15



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	22.53	27.53	3.62	0.00	53.68	74.00	20.32	PK	Horizontal
2	2486.005	25.35	27.54	3.62	0.00	56.51	74.00	17.49	PK	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.603	18.82	27.53	3.62	49.97	54.00	4.03	AV	Horizontal	
2	2486.037	17.24	27.54	3.62	48.40	54.00	5.60	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

MIMO TX 11AX20 2412MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

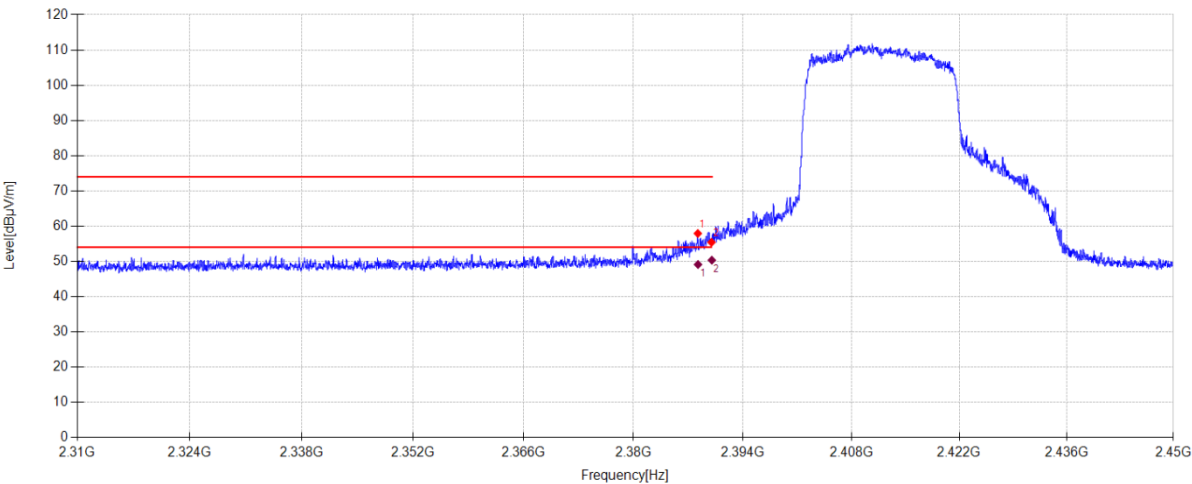
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\34

Memo:

Sample Number:S25061924-001 Power Setting:17



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.246	27.11	27.25	3.57	0.00	57.93	74.00	16.07	PK	Horizontal
2	2390.000	24.59	27.26	3.57	0.00	55.42	74.00	18.58	PK	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2388.272	18.30	27.25	3.57	49.12	54.00	4.88	AV	Horizontal	
2	2390.044	19.52	27.26	3.57	50.35	54.00	3.65	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

MIMO TX 11AX20 2462MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

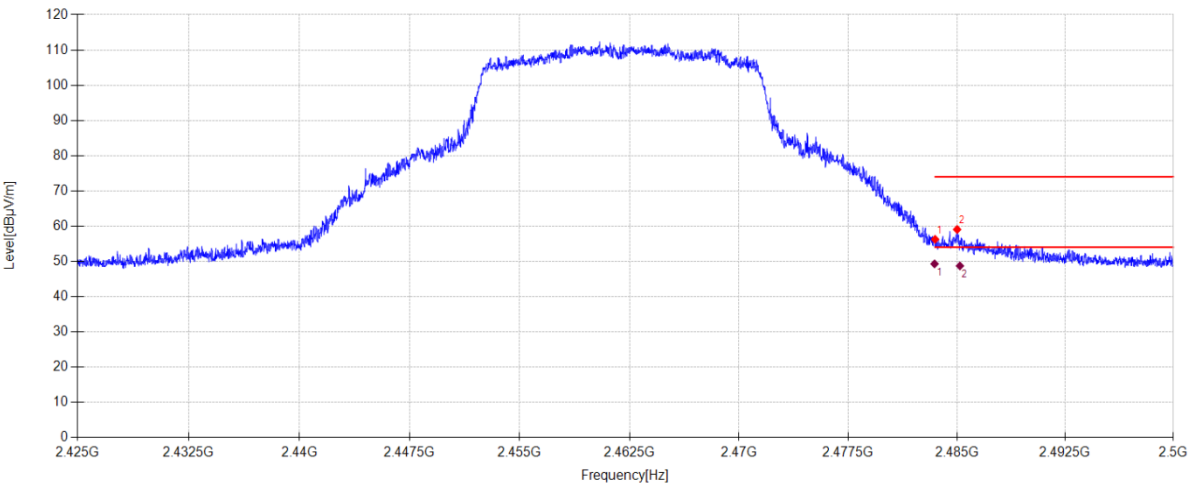
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25061924-001 Power Setting:17



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	25.12	27.53	3.62	0.00	56.27	74.00	17.73	PK	Horizontal
2	2485.023	27.90	27.54	3.62	0.00	59.06	74.00	14.94	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2483.465	18.15	27.53	3.62	49.30	54.00	4.70	AV	Horizontal	
2	2485.217	17.57	27.54	3.62	48.73	54.00	5.27	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:

2025-07-10

Tested By:

Lin Guoyuan

EUT:

Wireless Access Point

Model Number:

L2531

Test Mode:

MIMO TX 11AX40 2422MHz Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:44.4%

Test Site:

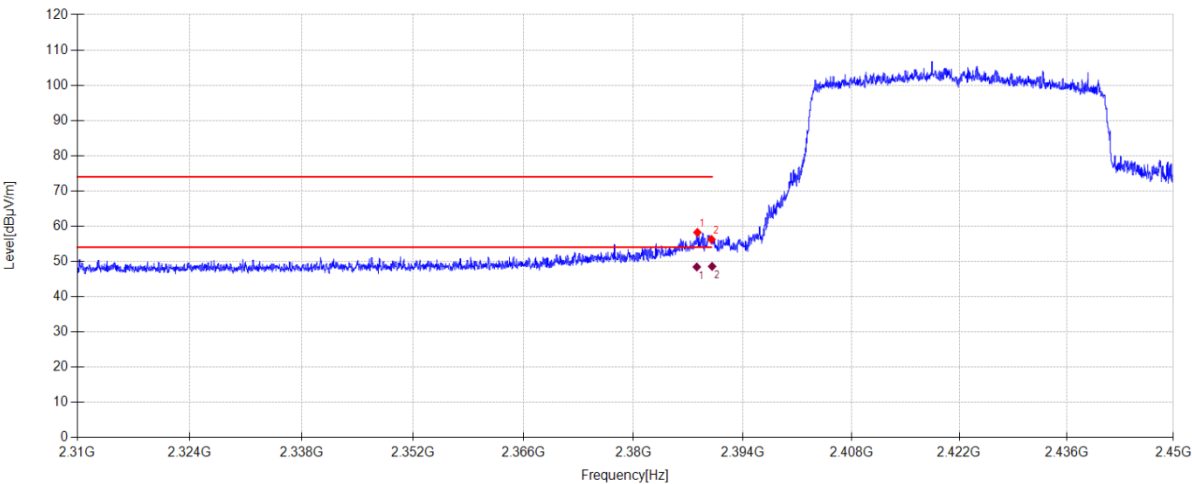
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S25061924-001 Power Setting:16.5



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.190	27.40	27.25	3.57	0.00	58.22	74.00	15.78	PK	Horizontal
2	2390.000	25.41	27.26	3.57	0.00	56.24	74.00	17.76	PK	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	2388.115	17.60	27.25	3.57	48.42	54.00	5.58	AV	Horizontal	
2	2390.082	17.74	27.26	3.57	48.57	54.00	5.43	AV	Horizontal	

Note:

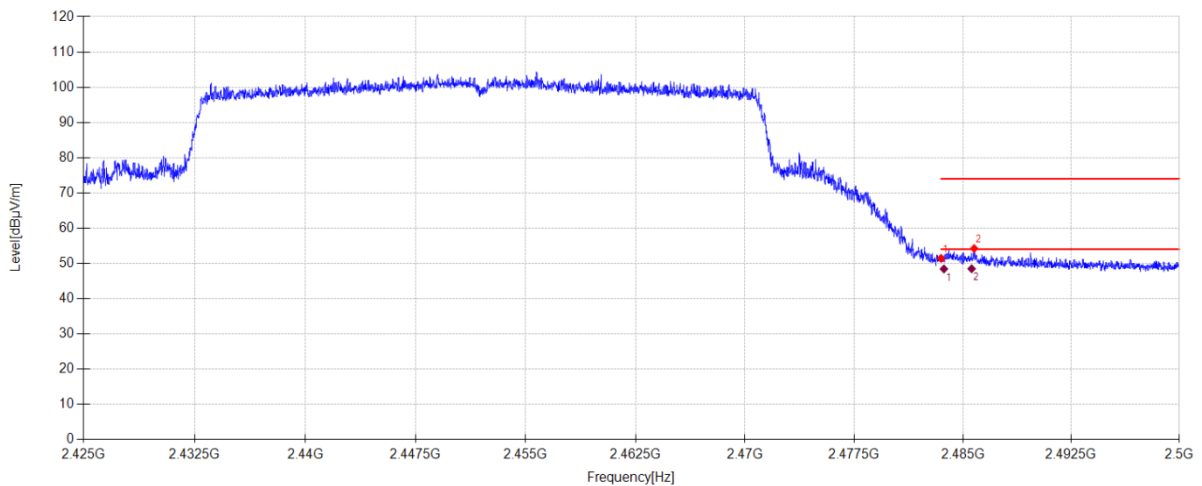
1. Level = Reading + Cable loss + Antenna Factor + AMP

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: 2025-07-10 **Tested By:** Lin Guoyuan
EUT: Wireless Access Point **Model Number:** L2531
Test Mode: MIMO TX 11AX40 2452MHz Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:44.4% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25061924-2E\FCC ABOVE1G 2.4G\32
Memo: Sample Number:S25061924-001 Power Setting:16.5

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	20.28	27.53	3.62	0.00	51.43	74.00	22.57	PK	Horizontal
2	2485.788	23.06	27.54	3.62	0.00	54.22	74.00	19.78	PK	Horizontal

Final Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.699	17.27	27.53	3.62	48.42	54.00	5.58	AV	Horizontal
2	2485.612	17.32	27.54	3.62	48.48	54.00	5.52	AV	Horizontal

Note:

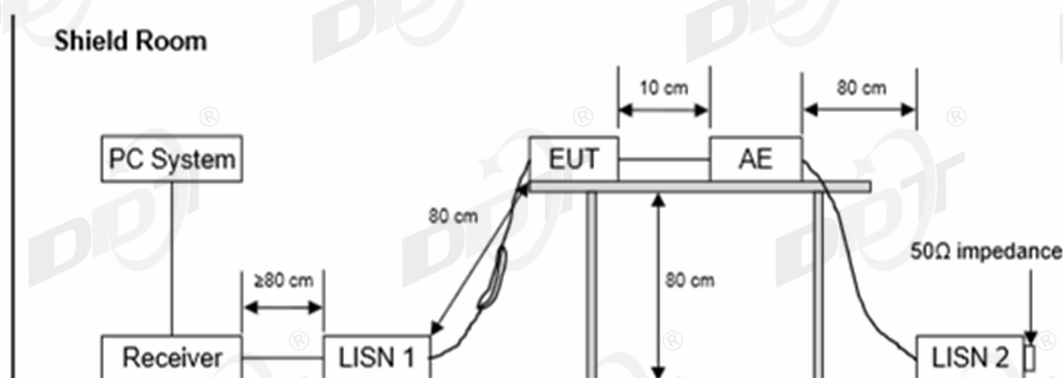
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Power Line Conducted Emissions

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Receiver	R&S	ESCI/E3	DDT-ZC01297	2026/07/06
Two Line V-Network	R&S	ENV216	DDT-ZC02059	2026/07/06
Two Line V-Network	R&S	ENV216	DDT-ZC02056	2026/07/06
Three-phase artificial power network	SCHWARZBEC K	NSLK 8163	DDT-ZC01572	2026/07/06
Pulse Limiter	SCHWARZBEC K	VTSD 9561	DDT-ZC02128	2026/07/06
RF Cable	Yuhu Technology	Z806-NJ-NJ-6M	DDT-ZC02004	2026/07/06
Conducted Radiated Software	Audix	E3	DDT-ZC00562	/
Δ -shaped artificial power network	SCHWARZBEC K	PVDC 8301	DDT-ZC03939	2026/03/28

14.2. Block diagram of test setup



14.3. Limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.4. Assistant equipment used for test

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

14.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

14.6. Test result

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.

14.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 6# Shield Room

Test Date

: 2025-06-25

EUT

: Wireless Access Point

Power Supply

: AC 120V/60Hz

Condition

: Temp:23.9°C,Humi:52.7%

Memo

:

D:\2025 Report Date\Q25061924-2E\0625 CE.EM6

Tested By

: Zhong Nan

Model Number

: L2531

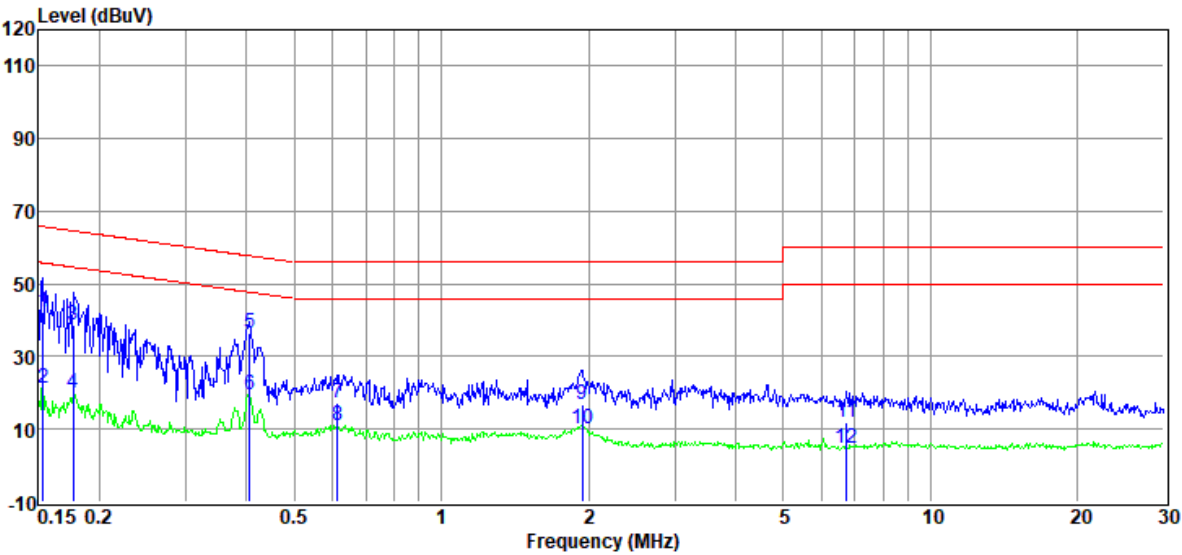
Test Mode

: TX N20 2412MHz MIMO Mode

LISN

: 2024 ENV216 3##NEUTRAL

Data: 2



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.15	22.64	9.78	0.07	9.83	42.32	65.82	-23.50	QP	NEUTRAL
2	0.15	1.75	9.78	0.07	9.83	21.43	55.82	-34.39	Average	NEUTRAL
3	0.18	18.84	9.77	0.06	9.83	38.50	64.64	-26.14	QP	NEUTRAL
4	0.18	0.36	9.77	0.06	9.83	20.02	54.64	-34.62	Average	NEUTRAL
5	0.41	16.77	9.77	0.09	9.83	36.46	57.73	-21.27	QP	NEUTRAL
6	0.41	-0.14	9.77	0.09	9.83	19.55	47.73	-28.18	Average	NEUTRAL
7	0.61	-2.21	9.75	0.08	9.83	17.45	56.00	-38.55	QP	NEUTRAL
8	0.61	-8.71	9.75	0.08	9.83	10.95	46.00	-35.05	Average	NEUTRAL
9	1.94	-2.75	9.77	0.11	9.84	16.97	56.00	-39.03	QP	NEUTRAL
10	1.94	-9.62	9.77	0.11	9.84	10.10	46.00	-35.90	Average	NEUTRAL
11	6.73	-8.05	9.82	0.15	9.86	11.78	60.00	-48.22	QP	NEUTRAL
12	6.73	-15.18	9.82	0.15	9.86	4.65	50.00	-45.35	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 6# Shield Room

Test Date : 2025-06-25

EUT : Wireless Access Point

Power Supply : AC 120V/60Hz

Condition : Temp:23.9°C,Humi:52.7%

Memo :

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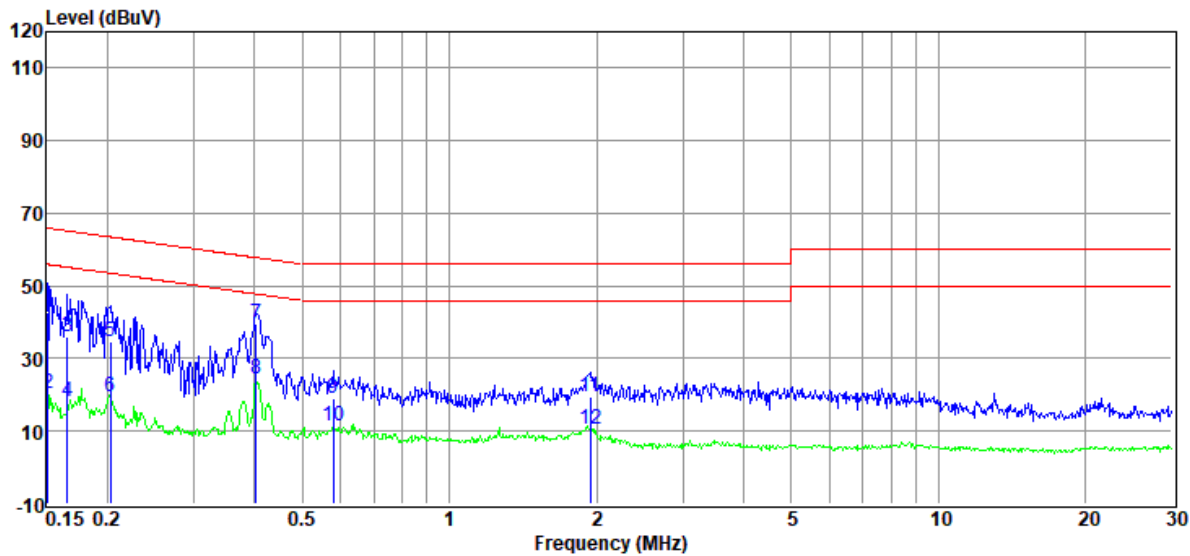
Tested By : Zhong Nan

Model Number : L2531

Test Mode : TX N20 2412MHz MIMO Mode

LISN : 2024 ENV216 3#/LINE

Data: 4



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.15	22.86	9.78	0.07	9.83	42.54	65.96	-23.42	QP	LINE
2	0.15	0.78	9.78	0.07	9.83	20.46	55.96	-35.50	Average	LINE
3	0.17	16.18	9.78	0.07	9.83	35.86	65.16	-29.30	QP	LINE
4	0.17	-1.58	9.78	0.07	9.83	18.10	55.16	-37.06	Average	LINE
5	0.20	14.82	9.77	0.06	9.83	34.48	63.49	-29.01	QP	LINE
6	0.20	-0.13	9.77	0.06	9.83	19.53	53.49	-33.96	Average	LINE
7	0.40	19.96	9.77	0.09	9.83	39.65	57.81	-18.16	QP	LINE
8	0.40	4.80	9.77	0.09	9.83	24.49	47.81	-23.32	Average	LINE
9	0.58	-0.80	9.75	0.09	9.83	18.87	56.00	-37.13	QP	LINE
10	0.58	-8.18	9.75	0.09	9.83	11.49	46.00	-34.51	Average	LINE
11	1.94	-0.40	9.75	0.11	9.84	19.30	56.00	-36.70	QP	LINE
12	1.94	-9.01	9.75	0.11	9.84	10.69	46.00	-35.31	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.

16. Photos of the EUT

Please refer to DDT-Q25061924-1E appendix I

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