

Temperature:

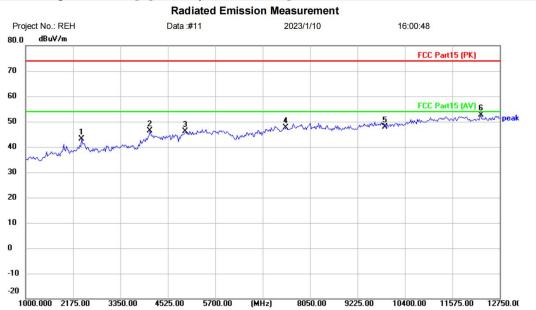
Humidity:

(C)

%RH



[TestMode: TX high channel]; [Polarity: Horizontal]



Polarization: Horizontal

Limit: FCC Part15 (PK)

Mode: TX-H Note:

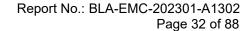
Site

EUT: thinkplus LivePods M/N: LenovoLP1

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2386.500	44.20	-1.11	43.09	74.00	-30.91	peak	
2		4078.500	43.86	2.55	46.41	74.00	-27.59	peak	
3		4960.000	40.74	5.42	46.16	74.00	-27.84	peak	
4		7440.000	39.19	8.48	47.67	74.00	-26.33	peak	
5		9920.000	36.13	11.69	47.82	74.00	-26.18	peak	
6	*	12280.000	38.67	13.89	52.56	74.00	-21.44	peak	

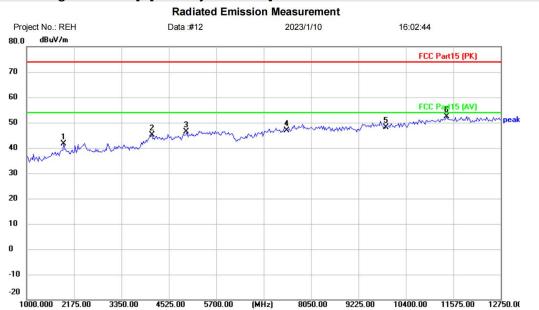
Power:

*:Maximum data x:Over limit !:over margin (Reference Only





[TestMode: TX high channel]; [Polarity: Vertical]



Polarization:

Power:

Vertical

Temperature:

Humidity:

(C)

%RH

Limit: FCC Part15 (PK)

EUT: thinkplus LivePods M/N: LenovoLP1

Mode: TX-H

Note:

Site

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	1916.500	46.48	-4.74	41.74	74.00	-32.26	peak	
2	4102.000	42.30	2.75	45.05	74.00	-28.95	peak	
3	4960.000	40.93	5.42	46.35	74.00	-27.65	peak	
4	7440.000	38.39	8.48	46.87	74.00	-27.13	peak	
5	9920.000	36.47	11.69	48.16	74.00	-25.84	peak	
6 *	11410.500	38.66	13.63	52.29	74.00	-21.71	peak	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}



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Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.





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16 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

Test Standard 47 CFR Part 15, Subpart C 15.247				
Test Method ANSI C63.10 (2013) Section 6.10.5				
Test Mode (Pre-Scan)	TX			
Test Mode (Final Test)	TX			
Tester	Jozu			
Temperature	25℃			
Humidity	60%			

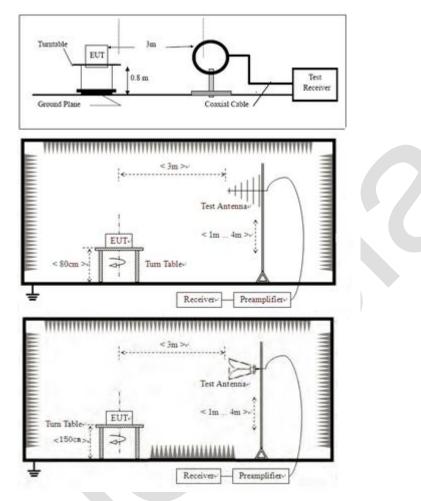
16.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



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h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

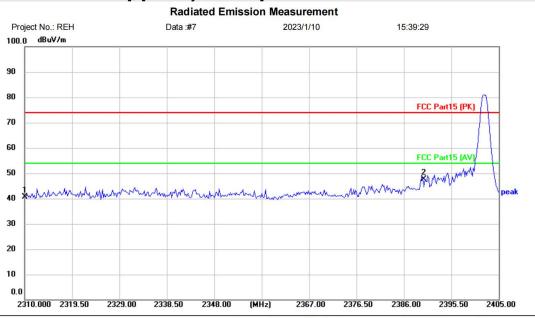
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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16.4 TEST DATA

[TestMode: TX low channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK) EUT: thinkplus LivePods

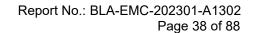
M/N: LenovoLP1 Mode: TX-L Note:

Site

Polarization:	Vertical	i emperature:	(C)
Power:		Humidity:	%RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment		Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	43.17	-2.43	40.74	74.00	-33.26	peak	
2	*	2390.000	48.80	-1.11	47.69	74.00	-26.31	peak	

*:Maximum data x:Over limit !:over margin (Reference Only



Temperature:

Humidity:

(C)

%RH



[TestMode: TX low channel]; [Polarity: Horizontal]

Radiated Emission Measurement Project No.: REH Data:#8 2023/1/10 15:45:53 100.0 dBuV/m 90 80 FCC Part15 (PK) 70 60 FCC Part 15 (AV 50 40 30 20 10 0.0 2310.000 2319.50 2405.00 2329.00 2338.50 2348.00 (MHz) 2376.50 2386.00 2395.50

Polarization: Horizontal

Limit: FCC Part15 (PK)

Note:

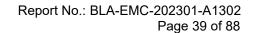
Site

EUT: thinkplus LivePods M/N: LenovoLP1 Mode: TX-L

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	2310.000	42.84	-2.43	40.41	74.00	-33.59	peak	
2 *	2390.000	43.17	-1.11	42.06	74.00	-31.94	peak	

Power:

*:Maximum data x:Over limit !:over margin (Reference Only



2497.80

(C)

%RH

Temperature:

Humidity:



[TestMode: TX high channel]; [Polarity: Horizontal]

2482.40

2484.60

2486.80

Radiated Emission Measurement Project No.: REH Data :#13 2023/1/10 16:06:14 100.0 dBuV/m 90 80 FCC Part15 (PK) 70 60 FCC Part15 (AV) 50 40 30 20 10 0.0 2478.000 2480.20 2500.00

(MHz)

Power:

2491.20

Polarization: Horizontal

2493.40

Site Limit: FCC Part15 (PK)

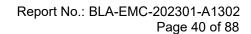
EUT: thinkplus LivePods

M/N: LenovoLP1 Mode: TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment		Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	43.70	-3.96	39.74	74.00	-34.26	peak	
2		2500.000	43.18	-4.00	39.18	74.00	-34.82	peak	

*:Maximum data x:Over limit !:over margin (Reference Only





[TestMode: TX high channel]; [Polarity: Vertical]

Radiated Emission Measurement



Polarization:

Power:

Vertical

Temperature:

Humidity:

(C)

%RH

Limit: FCC Part15 (PK)

EUT: thinkplus LivePods M/N: LenovoLP1

Mode: TX-H

Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment		Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	45.37	-3.96	41.41	74.00	-32.59	peak	
2		2500.000	42.14	-4.00	38.14	74.00	-35.86	peak	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}



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Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.





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17 CONDUCTED BAND EDGES MEASUREMENT

Test Standard 47 CFR Part 15, Subpart C 15.247				
Test Method ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2				
Test Mode (Pre-Scan)	TX			
Test Mode (Final Test)	TX			
Tester	Jozu			
Temperature	25℃			
Humidity	60%			

17.1 LIMITS

Limit:

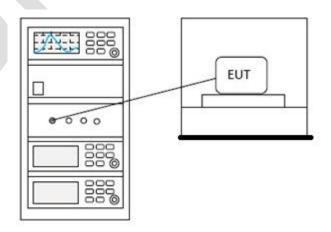
spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the

restricted bands, as defined in §15.205(a), must also comply with the radiated

emission limits specified in §15.209(a) (see §15.205(c)).

In any 100 kHz bandwidth outside the frequency band in which the spread

17.2 BLOCK DIAGRAM OF TEST SETUP





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17.3 TEST DATA





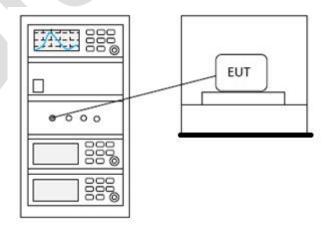


Test Standard	47 CFR Part 15, Subpart C 15.247					
Test Method	ANSI C63.10 (2013) Section 7.8.4					
Test Mode (Pre-Scan)	TX					
Test Mode (Final Test)	TX					
Tester	Jozu					
Temperature	25℃					
Humidity	60%					

18.1 LIMITS

Frequency(MHz)	Limit
	0.4S within a 20S period(20dB
002.028	bandwidth<250kHz)
902-928	0.4S within a 10S period(20dB
	bandwidth≥250kHz)
	0.4S within a period of 0.4S multiplied by the
2400-2483.5	number
	of hopping channels
5725-5850	0.4S within a 30S period

18.2 BLOCK DIAGRAM OF TEST SETUP

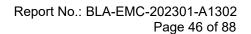




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18.3 TEST DATA







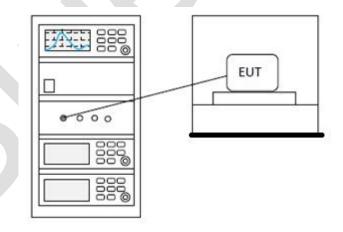
19 HOPPING CHANNEL NUMBER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.3
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

19.1 LIMITS

Frequency range(MHz)	Number of hopping channels (minimum)		
000 000	50 for 20dB bandwidth <250kHz		
902-928	25 for 20dB bandwidth ≥250kHz		
2400-2483.5	15		
5725-5850	75		

19.2 BLOCK DIAGRAM OF TEST SETUP



19.3 TEST DATA



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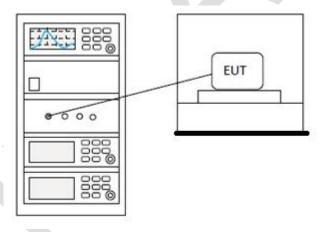
20 CARRIER FREQUENCIES SEPARATION

Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.2				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

20.1 LIMITS

Limit: 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

20.2 BLOCK DIAGRAM OF TEST SETUP



20.3 TEST DATA



21 APPENDIX

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Appendix1

Maximum Conducted Output Power

Condition	Mode	Frequency	Antenna Conducted Power		Limit	Verdict
		(MHz)		(dBm)	(dBm)	
NVNT	1-DH1	2402	Ant1	-1.261	21	Pass
NVNT	1-DH1	2441	Ant1	-1.896	21	Pass
NVNT	1-DH1	2480	Ant1	-3.693	21	Pass
NVNT	2-DH1	2402	Ant1	-0.517	21	Pass
NVNT	2-DH1	2441	Ant1	-1.096	21	Pass
NVNT	2-DH1	2480	Ant1	-2.902	21	Pass

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1





Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1





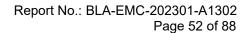
Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1









-20dB Bandwidth

Condition	Mode	Frequency	Antenna	-20 dB Bandwidth	Limit -20 dB	Verdict
		(MHz)		(MHz)	Bandwidth (MHz)	
NVNT	1-DH1	2402	Ant1	0.876	0	Pass
NVNT	1-DH1	2441	Ant1	0.835	0	Pass
NVNT	1-DH1	2480	Ant1	0.85	0	Pass
NVNT	2-DH1	2402	Ant1	1.229	0	Pass
NVNT	2-DH1	2441	Ant1	1.252	0	Pass
NVNT	2-DH1	2480	Ant1	1.233	0	Pass

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



09:49:10 AM Jan 13, 2023 Center Freq: 2.441000000 GHz Trig: Free Run Avg #Atten: 30 dB Center Freq 2.441000000 GHz Radio Std: None Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Mkr1 2.441 GHz -6.9233 dBm Ref Offset 4.03 dB Ref 24.03 dBm 10 dB/div Span 2 MHz Sweep 2.667 ms Center 2.441 GHz #Res BW 30 kHz **#VBW 100 kHz Total Power** 4.08 dBm Occupied Bandwidth 814.15 kHz **Transmit Freq Error** -15.608 kHz **OBW Power** 99.00 % x dB Bandwidth 835.1 kHz x dB -20.00 dB

-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1







Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.81731
NVNT	1-DH1	2441	Ant1	0.8164
NVNT	1-DH1	2480	Ant1	0.8350
NVNT	2-DH1	2402	Ant1	1.1452
NVNT	2-DH1	2441	Ant1	1.1517
NVNT	2-DH1	2480	Ant1	1.1509

OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1





OBW NVNT 1-DH1 2480MHz Ant1

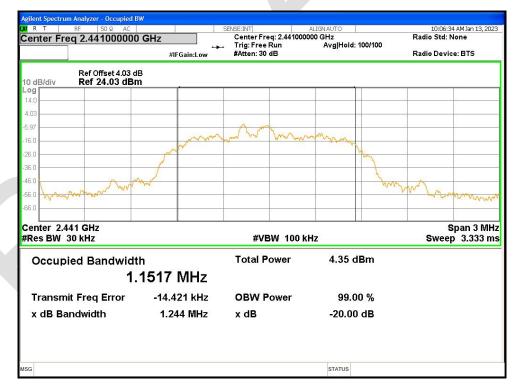


OBW NVNT 2-DH1 2402MHz Ant1



03:29 AM Jan 13, 2023 Center Freq: 2.402000000 GHz Trig: Free Run Avg #Atten: 30 dB Center Freq 2.402000000 GHz Radio Std: None Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Ref Offset 4.01 dB Ref 24.01 dBm 10 dB/div Span 3 MHz Sweep 3.333 ms Center 2.402 GHz #Res BW 30 kHz **#VBW 100 kHz Total Power** 4.73 dBm Occupied Bandwidth 1.1452 MHz **Transmit Freq Error** -18.316 kHz **OBW Power** 99.00 % x dB Bandwidth 1.213 MHz x dB -20.00 dB

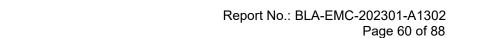
OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1



10:08:18 AM Jan 13, 2023 Radio Std: None Center Freq 2.480000000 GHz #IFGain:Low Radio Device: BTS Ref Offset 4.08 dB Ref 24.08 dBm 10 dB/div Span 3 MHz Sweep 3.333 ms Center 2.48 GHz #Res BW 30 kHz **#VBW 100 kHz** Occupied Bandwidth **Total Power** 2.07 dBm 1.1509 MHz -15.505 kHz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 1.227 MHz x dB -20.00 dB





Band Edge

Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH1	2402	Ant1	No-Hopping	-52.94	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-49.72	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-52.16	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-50.22	-20	Pass

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission