



TEST REPORT

Report No. SST240408005EF05

Applicant: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Address of Applicant: Bld.2, Yingfeng Industrial Zone, Tantou Community,
Songgang Street, Bao'an, Shenzhen, China.

Product Name: Android Tablet

Trade Mark: /

Standard(s): FCC CFR Title 47 Part 15 Subpart E Section 15.407

FCC ID: 2ABC5-E0058

Test Report Form No: SST-RD-7.5-02-E01(A/0)

Date of sample receipt: 2024/5/6

Date of Test: 2024/5/6 - 2024/5/14

Date of report issued: 2024/5/16

*The equipment complies with the requirements according to the standard(s) or Specification above, it is applicable only to the tested sample identified in the report.

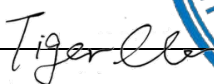
Prepared by:



Reviewed by:



Approved by:





*The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Version	Description	Date of Issue
V1.0	Original	2024/5/16



2 Contents

	Page
1 COVER PAGE	1
2 CONTENTS	3
3 TEST SUMMARY	4
4 MEASUREMENT UNCERTAINTY	4
5 GENERAL INFORMATION	5
5.1 CLIENT INFORMATION	5
5.2 GENERAL DESCRIPTION OF EUT	5
5.3 TEST MODE(S)	6
5.4 TEST FACILITY	7
5.5 DESCRIPTION OF SUPPORT UNITS	7
5.6 ADDITIONAL INSTRUCTIONS	7
5.7 ANTENNA INFORMATION	7
5.8 OTHERS	7
6 TECHNICAL REQUIREMENT AND MEASUREMENT DATA	8
6.1 GENERALLY REQUIREMENT	8
6.2 DUTY CYCLE	9
6.3 CONDUCTED OUTPUT POWER	10
6.4 CHANNEL BANDWIDTH AND 99% OCCUPIED BANDWIDTH	11
6.5 POWER SPECTRAL DENSITY	12
6.6 FREQUENCY STABILITY	13
6.7 RADIATED SPURIOUS EMISSION	14
6.8 CONDUCTED EMISSIONS	23
7 TEST SETUP PHOTO	26
8 EUT CONSTRUCTIONAL DETAILS	26
ANNEX A --TEST INSTRUMENTS LIST	27

3 Test Summary

Test items	Basics standards	Result
Antenna requirement	FCC part 15.203	Pass
Automatically discontinue transmission	FCC part 15.407(c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Conducted Peak Output Power	FCC part 15.407(a)(3)	Pass
Channel Bandwidth and 99% Occupied Bandwidth	FCC part 15.407(e)	Pass
Power Spectral Density	FCC part 15.407(a)(3)	Pass
Band Edge	FCC part 15.407(b)(4)	Pass
Spurious Emission	FCC part 15.205/15.209/15.407(b)(4)	Pass
Frequency Stability	FCC part 15.407(g)	Pass

Notes:

1: NA =Not Applicable

2: Determining compliance based on the results of the compliance measurement, not taking into account measurement uncertainty. If necessary, the applicant shall inform test lab in advance

3: Additions, Deviations and Exclusions from Standards: None.

4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Item	Uncertainty ($\pm$) (k=2, 95%)	
Output Power, Conducted	0.54	
Power Spectral Density, Conducted	1.28	
Spurious Emissions, Conducted	1.28	
Radiated Emissions(<1GHz)	9kHz~30MHz	2.6
	30MHz~1GHz	5.08
Radiated Emissions(>1GHz)	1GHz~6GHz	4.02
	6GHz~18GHz	4.62
	18GHz~40GHz	4.7
Occupied Bandwidth	1.14	
Conducted Emissions—AC mains	9kHz~150KHz	1.76
	150kHz~30MHz	2.52
Conducted Emissions—Telecom	2.64	

5 General Information

5.1 Client Information

Applicant: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.
Address of applicant: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen, China.
Manufacturer: Same as applicant
Address of Manufacturer: Same as applicant
Factory: Same as applicant
Address of Factory: Same as applicant

5.2 General Description of EUT

Product Name:	Android Tablet
Model No.:	NW2493T, SW2493T
Test Model:	NW2493T
Test sample(s) ID:	24040800502
Sample(s) Status:	Continuously transmitter
S/N:	/
Hardware version:	/
Software version:	/
Operation Frequency:	5745MHz ~ 5825MHz
Technical specific:	802.11a, 802.11n, 802.11ac, 802.11ax
Supported bandwidth:	20MHz, 40MHz, 80MHz
Modulation technology:	OFDM(A)
Antenna gain:	Refer to section 5.7 for details
Power supply:	SW2493T: SWITCH MODE POWER SUPPLY Model No.: S065-1A180300B3 INPUT: AC 100-240V, 50/60Hz, 1.5A OUTPUT: DC 18V, 3.0A, 54.0W Or 5200mAh, 14.6V, 75.92Wh Lithium-ion Rechargeable Battery NW2493T: SWITCH ADAPTER Model No.: FJ-SW20171205000 INPUT: AC 100-240V, 50/60Hz, 1.5A MAX OUTPUT: DC 12V, 5.0A, 60.0W

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	151	5755MHz	153	5765MHz	155	5775MHz
157	5785MHz	159	5795MHz	161	5805MHz	163	5815MHz
165	5825MHz						

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)		
	802.11 @20M	802.11 @40M	802.11 @80M
Lowest channel	5745	5755	
Middle channel	5785		5775
Highest channel	5825	5795	

5.3 Test mode(s)

Mode 1:	continuously transmitting, with its lowest data rate which emit the max power level
Mode 2:	
Mode 3:	

5.4 Test Facility

The test facility is recognized, certified, or accredited by these organizations:	FCC Accredited Lab Test Firm Registration Number: 638130 Designation Number: CN1359
	IC Registration Lab CAB Identifier No.CN0154
	A2LA Accreditation Lab Certificate No.:7057.01

Test Performed at:	Name GuangDong Set Sail Testing Co., Ltd.
	Address 101, No.19, Tianxin Hudie 1st Road, Huangjiang Town, Dongguan, Guangdong, China

5.5 Description of Support Units

Device Type	Brand	Model	Series No.	Note
Notebook PC	HP	ZHAN 66P	---	---

5.6 Additional Instructions

Test Software	Special test command used
Power level setup	Default

5.7 Antenna Information

Ant	Manufacturer	Model	Antenna Type	Antenna Gain (dBi)
1	Shenzhen Yishengbang Technology Co., Ltd	/	/	1.82

All above information provided by the applicant which is fully responsible for those information.

5.8 Others

The laboratory responsible for all the information provided in the report, except those information provided by the applicant. The applicant shall fully responsible for the information they provided. The report would be invalid without a stamp of test laboratory and the signatures of compiler and approver. The laboratory has not been responsible for the sampling stage; the test report merely corresponds to the test sample received. Any objection to the test report shall submitted to the test laboratory within 15 days from the date of receipt of the report. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

6 Technical Requirement and Measurement Data

6.1 Generally requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407(a) requirement:

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

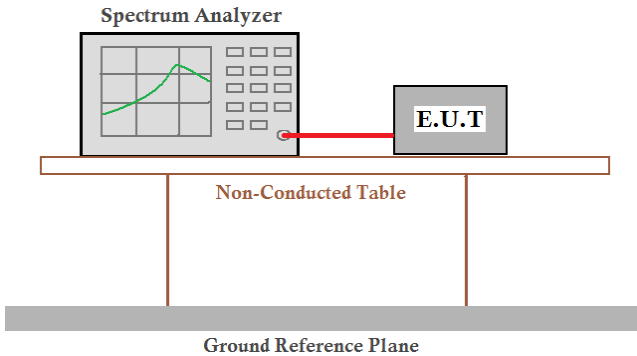
EUT Antenna:

Reference to the appendix II for details

15.407(c) requirement:

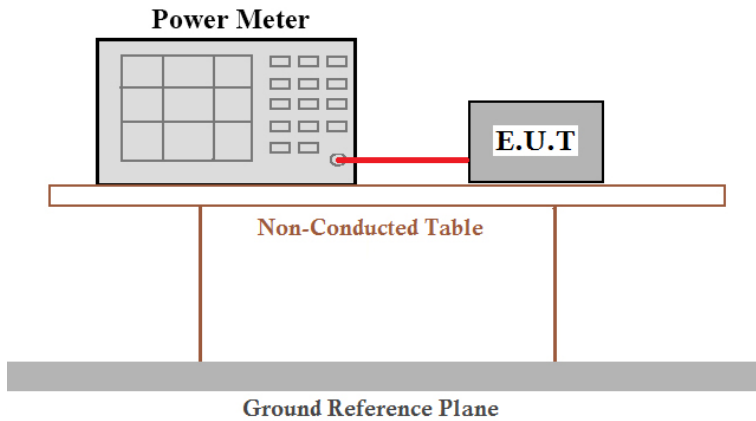
The applicant declares that the device (FCC Part 15 Subpart E Section 15.407) shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure.

6.2 Duty Cycle

Limit
Report for use
Block diagram of Test Setup
 The diagram shows a Spectrum Analyzer and an E.U.T (Equipment Under Test) connected by a red cable. They are both placed on a table labeled 'Non-Conducted Table'. Below this table is a 'Ground Reference Plane'.
Test Instrument
Refer to Annex A for details
Test Procedures
The transmitter output connected to the Spectrum Analyzer. Test according to Procedure B.2 in KDB 789033 D02 v02r01. 1.RBW=8 MHz(the largest available value) 2.VBW=8 MHz(>RBW) 3.SPAN = 0 Hz 4.Detector = Peak 5.Number of points in sweep: 30001 6.Trace mode: Clear write 7.Measure T_{total} and T_{on} 8.Calculate Duty Cycle = T_{on}/T_{total} and Duty Cycle Factor = $10\log(1/\text{Duty Cycle})$
Verdict
Pass

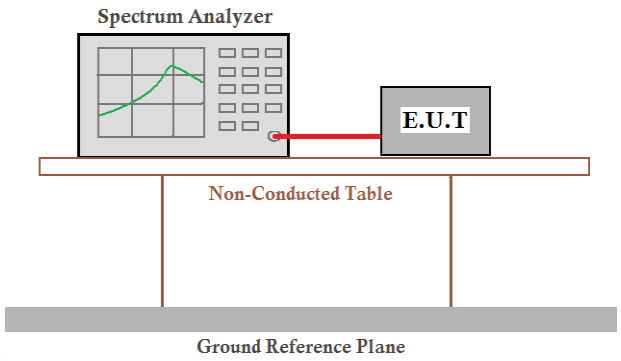
Measurement Data: The detailed test data see Appendix

6.3 Conducted Output Power

Limit
1W(30dBm)
Block diagram of Test Setup
 The diagram illustrates the test setup for conducted output power. A Power Meter and an E.U.T. (Equipment Under Test) are connected by a red cable. They are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.
Test Instrument
Refer to Annex A for details
Test Procedures
Test applies to ANSI C63.10:2013 & KDB 789033 D02 v02r01
Verdict
Pass

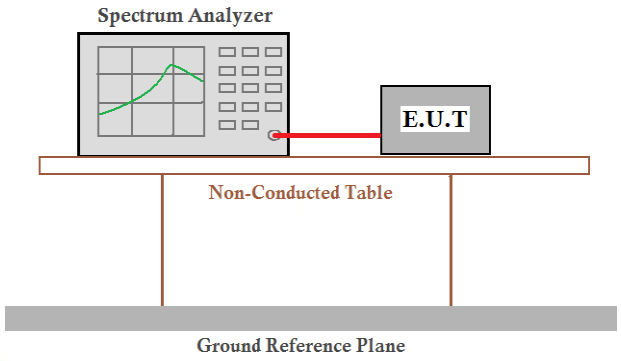
Measurement Data: The detailed test data see Appendix

6.4 Channel Bandwidth and 99% Occupied Bandwidth

Limit
>500kHz
Block diagram of Test Setup
 The diagram shows a Spectrum Analyzer and an E.U.T. (Equipment Under Test) connected by a red cable. They are both placed on a table labeled 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.
Test Instrument
Refer to Annex A for details
Test Procedures
Test applies to ANSI C63.10:2013 & KDB 789033 D02 v02r01
Verdict
Pass

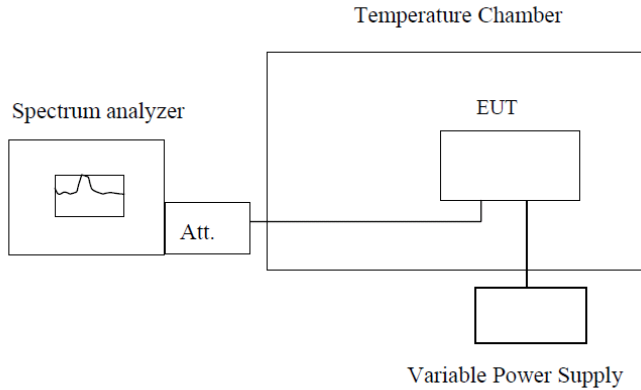
Measurement Data: The detailed test data see Appendix

6.5 Power Spectral Density

Limit
30dBm/500kHz
Block diagram of Test Setup
 The diagram shows a Spectrum Analyzer and an E.U.T. (Equipment Under Test) connected by a red cable. They are positioned on a table labeled 'Non-Conducted Table'. Below this table is a 'Ground Reference Plane'.
Test Instrument
Refer to Annex A for details
Test Procedures
Test applies to ANSI C63.10:2013 & KDB 789033 D02 v02r01
Verdict
Pass

Measurement Data: The detailed test data see Appendix

6.6 Frequency Stability

Limit
Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified
Block diagram of Test Setup
 Note : Measurement setup for testing on Antenna connector
Test Instrument
Refer to Annex A for details
Test Procedures
Test applies to ANSI C63.10:2013, FCC Part 2.1055.
Verdict
Pass

Measurement Data: The detailed test data see Appendix

6.7 Radiated Spurious Emission

Limit

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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Undesirable emission limits: the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

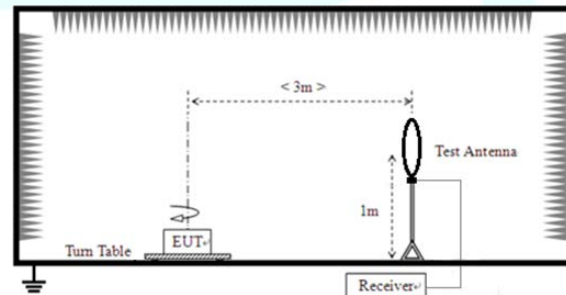
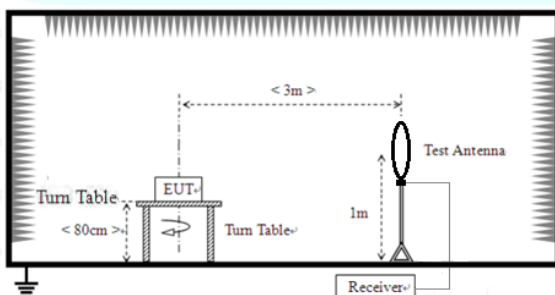
All emissions shall be limited to a level of –27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Block diagram of Test Setup

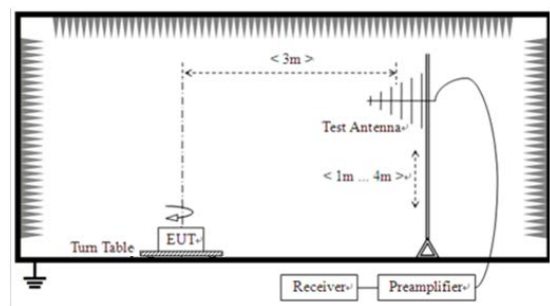
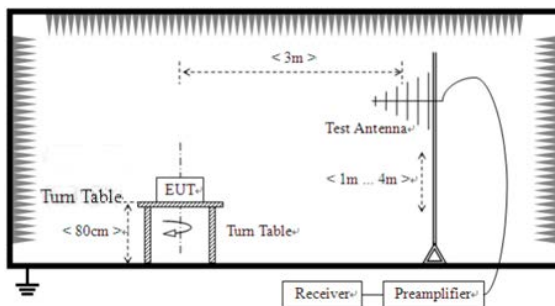
☒ For table-top equipment

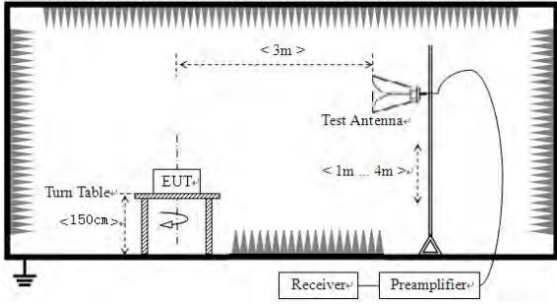
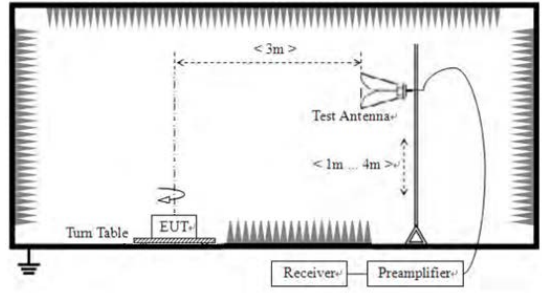
☐ For floor standing equipment

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



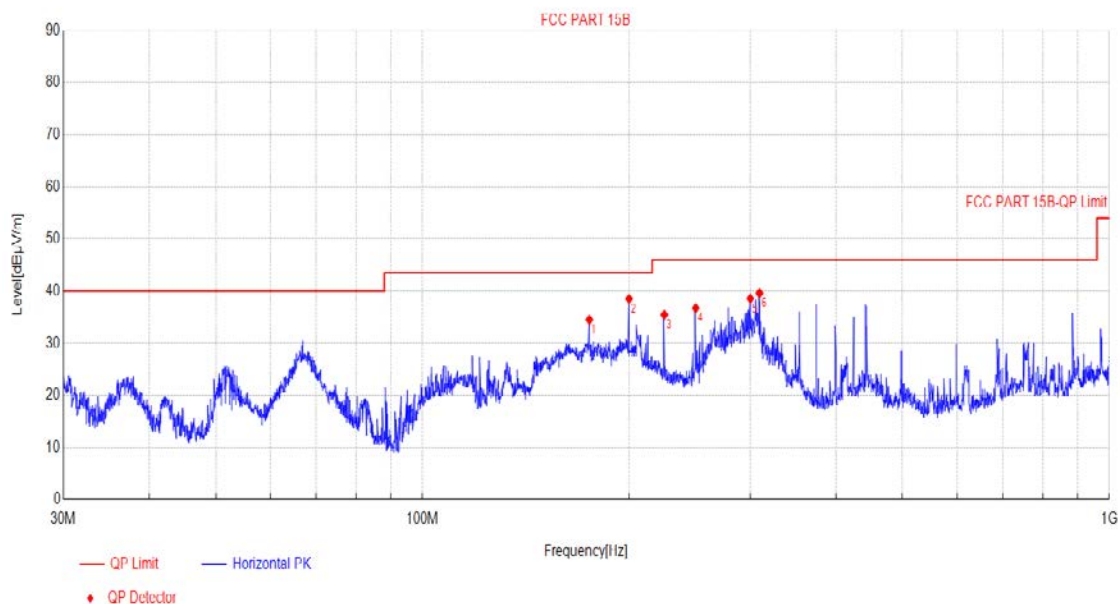
For radiated emissions above 1GHz	
	
Test Instrument	
Refer to Annex A for details	
Test Procedures	
Test applies to ANSI C63.10:2013 & KDB 789033 D02 v02r01	
Verdict	
Pass	

Note:

- The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.
- The undesirable spurious emission range from 18GHz to 40GHz is as low as the ambient noise, so there is no report.
- According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:
 $E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$
For example, if $\text{EIRP} = -27\text{dBm}$
 $E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$
 $E[\text{dBuV/m}] = 10 + 95.2 = 105.2\text{dBuV/m}.$
 $E[\text{dBuV/m}] = 15.6 + 95.2 = 110.8\text{dBuV/m}.$
 $E[\text{dBuV/m}] = 27 + 95.2 = 122.2\text{dBuV/m}$

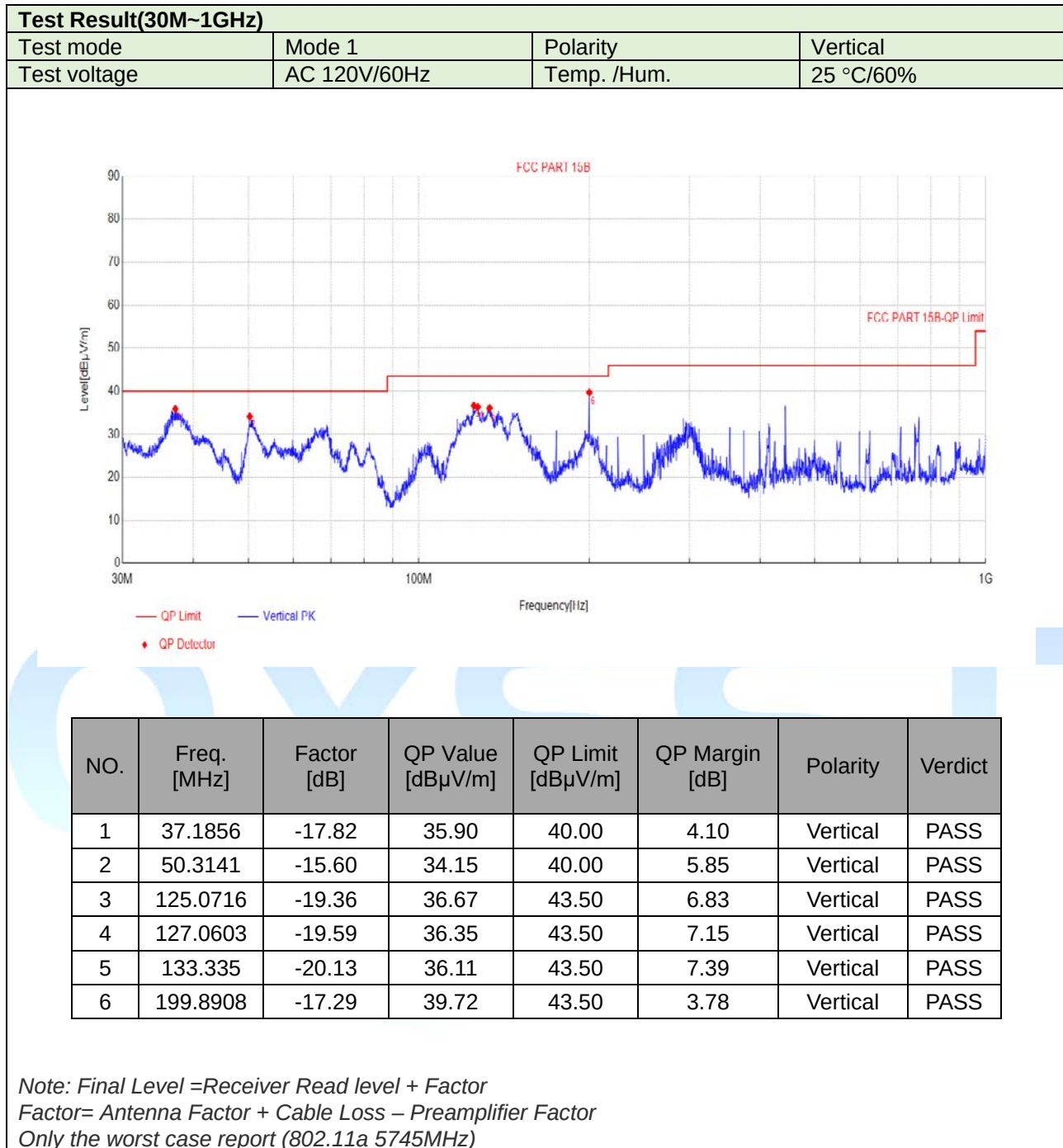
Test Result(30M~1GHz)

Test mode	Mode 1	Polarity	Horizontal
Test voltage	AC 120V/60Hz	Temp. /Hum.	25 °C/60%



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	174.9596	-19.06	34.49	43.50	9.01	Horizontal	PASS
2	199.8908	-17.29	38.52	43.50	4.98	Horizontal	PASS
3	224.9972	-16.53	35.47	46.00	10.53	Horizontal	PASS
4	249.9493	-15.78	36.76	46.00	9.24	Horizontal	PASS
5	300.1944	-14.30	38.56	46.00	7.44	Horizontal	PASS
6	309.5454	-14.03	39.60	46.00	6.40	Horizontal	PASS

Note: Final Level =Receiver Read level + Factor
Factor= Antenna Factor + Cable Loss – Preamplifier Factor
Only the worst case report (802.11a 5745MHz)



Test Result(Emissions in Non-restricted band)								
Test mode	Mode 1			Temp. /Hum.		25 °C/60%		
Test voltage	AC 120V/60Hz			Test channel		802.11ax20, 5745MHz		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490	52.38	39.2	12.47	53.35	50.7	68.2	-17.5	Horizontal
17235	52.97	39.81	15.56	51.68	56.66	68.2	-11.54	Horizontal
11490	52.68	39.2	12.47	53.35	51	68.2	-17.2	Vertical
17235	52.4	39.81	15.56	51.68	56.09	68.2	-12.11	Vertical
11490	46.17	39.2	12.47	53.35	44.49	54	-9.51	Horizontal
17235	46.06	39.81	15.56	51.68	49.75	54	-4.25	Horizontal
11490	47.34	39.2	12.47	53.35	45.66	54	-8.34	Vertical
17235	46.14	39.81	15.56	51.68	49.83	54	-4.17	Vertical

Note: Final Level =Receiver Read level + Factor
Factor= Antenna Factor + Cable Loss – Preamplifier Factor
Only the worst case report

Test Result(Emissions in Non-restricted band)								
Test mode	Mode 1			Temp. /Hum.		25 °C/60%		
Test voltage	AC 120V/60Hz			Test channel		802.11ax20, 5785MHz		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570	52.9	39.53	12.51	53.37	51.57	68.2	-16.63	Horizontal
17355	52.6	40.12	15.61	51.62	56.71	68.2	-11.49	Horizontal
11570	52.86	39.53	12.51	53.37	51.53	68.2	-16.67	Vertical
17355	53.54	40.12	15.61	51.62	57.65	68.2	-10.55	Vertical
11570	44.3	39.53	12.51	53.37	42.97	54	-11.03	Horizontal
17355	45.26	40.12	15.61	51.62	49.37	54	-4.63	Horizontal
11570	44.05	39.53	12.51	53.37	42.72	54	-11.28	Vertical
17355	44.65	40.12	15.61	51.62	48.76	54	-5.24	Vertical

Note: Final Level =Receiver Read level + Factor
Factor= Antenna Factor + Cable Loss – Preamplifier Factor
Only the worst case report

Test Result(Emissions in Non-restricted band)								
Test mode	Mode 1			Temp. /Hum.		25 °C/60%		
Test voltage	AC 120V/60Hz			Test channel		802.11ax20, 5825MHz		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490	54.31	39.2	12.47	53.35	52.63	68.2	-15.57	Horizontal
17235	52.35	39.81	15.56	51.68	56.04	68.2	-12.16	Horizontal
11490	52.51	39.2	12.47	53.35	50.83	68.2	-17.37	Vertical
17235	52.53	39.81	15.56	51.68	56.22	68.2	-11.98	Vertical
11490	46.24	39.2	12.47	53.35	44.56	54	-9.44	Horizontal
17235	46.93	39.81	15.56	51.68	50.62	54	-3.38	Horizontal
11490	46.61	39.2	12.47	53.35	44.93	54	-9.07	Vertical
17235	45.28	39.81	15.56	51.68	48.97	54	-5.03	Vertical

Note: Final Level =Receiver Read level + Factor
Factor= Antenna Factor + Cable Loss – Preamplifier Factor
Only the worst case report

Test Result(Emissions in Non-restricted band)								
Test mode	Mode 1			Temp. /Hum.		25 °C/60%		
Test voltage	AC 120V/60Hz			Test channel		802.11ax40, 5755MHz		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510	53.65	39.5	12.48	53.35	52.28	68.2	-15.92	Horizontal
17265	52.08	39.89	15.58	51.67	55.88	68.2	-12.32	Horizontal
11510	52.38	39.5	12.48	53.35	51.01	68.2	-17.19	Vertical
17265	52.96	39.89	15.58	51.67	56.76	68.2	-11.44	Vertical
11510	45.87	39.5	12.48	53.35	44.5	54	-9.5	Horizontal
17265	46.09	39.89	15.58	51.67	49.89	54	-4.11	Horizontal
11510	45.15	39.5	12.48	53.35	43.78	54	-10.22	Vertical
17265	45.8	39.89	15.58	51.67	49.6	54	-4.4	Vertical

Note: Final Level =Receiver Read level + Factor
Factor= Antenna Factor + Cable Loss – Preamplifier Factor
Only the worst case report

Test Result(Emissions in Non-restricted band)								
Test mode	Mode 1			Temp. /Hum.		25 °C/60%		
Test voltage	AC 120V/60Hz			Test channel		802.11ax40, 5795MHz		
Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Polarization
11590	52.43	39.54	12.52	53.38	51.11	68.2	-17.09	Horizontal
17385	53.56	40.2	15.62	51.61	57.77	68.2	-10.43	Horizontal
11590	52.15	39.54	12.52	53.38	50.83	68.2	-17.37	Vertical
17385	52.64	40.2	15.62	51.61	56.85	68.2	-11.35	Vertical
11590	45.88	39.54	12.52	53.38	44.56	54	-9.44	Horizontal
17385	46.07	40.2	15.62	51.61	50.28	54	-3.72	Horizontal
11590	45.98	39.54	12.52	53.38	44.66	54	-9.34	Vertical
17385	45.19	40.2	15.62	51.61	49.4	54	-4.6	Vertical

Note: Final Level =Receiver Read level + Factor
Factor= Antenna Factor + Cable Loss – Preamplifier Factor
Only the worst case report

Test Result(Emissions in Restricted band)								
Test mode		Mode 1		Temp. /Hum.		25 °C/60%		
Test voltage		AC 120V/60Hz		Test channel		802.11ax20		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	54.22	34.16	8.41	53.44	43.35	68.2	-24.85	Horizontal
5700.00	51.41	34.28	8.45	53.42	40.72	105.2	-64.48	Horizontal
5720.00	51.91	34.33	8.47	53.41	41.3	110.8	-69.5	Horizontal
5725.00	51.32	34.34	8.47	53.41	40.72	122.2	-81.48	Horizontal
5850.00	53.57	34.64	8.57	53.36	43.42	122.2	-78.78	Horizontal
5855.00	51.47	34.65	8.57	53.36	41.33	110.8	-69.47	Horizontal
5875.00	54.92	34.7	8.59	53.35	44.86	105.2	-60.34	Horizontal
5925.00	51.16	34.82	8.63	53.33	41.28	68.2	-26.92	Horizontal
5650.00	54.32	34.16	8.41	53.44	43.45	68.2	-24.75	Vertical
5700.00	51.51	34.28	8.45	53.42	40.82	105.2	-64.38	Vertical
5720.00	52.44	34.33	8.47	53.41	41.83	110.8	-68.97	Vertical
5725.00	53.48	34.34	8.47	53.41	42.88	122.2	-79.32	Vertical
5850.00	51.52	34.64	8.57	53.36	41.37	122.2	-80.83	Vertical
5855.00	54.82	34.65	8.57	53.36	44.68	110.8	-66.12	Vertical
5875.00	51.23	34.7	8.59	53.35	41.17	105.2	-64.03	Vertical
5925.00	52.77	34.82	8.63	53.33	42.89	68.2	-25.31	Vertical
Note:								
1. Final Level =Receiver Read level + Factor								
2. Factor= Antenna Factor + Cable Loss – Preamplifier Factor								
3. Only the worst case report								

Test Result(Emissions in Restricted band)								
Test mode		Mode 1		Temp. /Hum.		25 °C/60%		
Test voltage		AC 120V/60Hz		Test channel		802.11ax40		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	52.94	34.16	8.41	53.44	42.07	68.2	-26.13	Horizontal
5700.00	53.89	34.28	8.45	53.42	43.2	105.2	-62	Horizontal
5720.00	51.68	34.33	8.47	53.41	41.07	110.8	-69.73	Horizontal
5725.00	54.98	34.34	8.47	53.41	44.38	122.2	-77.82	Horizontal
5850.00	51.03	34.64	8.57	53.36	40.88	122.2	-81.32	Horizontal
5855.00	54.29	34.65	8.57	53.36	44.15	110.8	-66.65	Horizontal
5875.00	53.77	34.7	8.59	53.35	43.71	105.2	-61.49	Horizontal
5925.00	52.09	34.82	8.63	53.33	42.21	68.2	-25.99	Horizontal
5650.00	54.39	34.16	8.41	53.44	43.52	68.2	-24.68	Vertical
5700.00	51.19	34.28	8.45	53.42	40.5	105.2	-64.7	Vertical
5720.00	52.15	34.33	8.47	53.41	41.54	110.8	-69.26	Vertical
5725.00	53.12	34.34	8.47	53.41	42.52	122.2	-79.68	Vertical
5850.00	52.17	34.64	8.57	53.36	42.02	122.2	-80.18	Vertical
5855.00	51.84	34.65	8.57	53.36	41.7	110.8	-69.1	Vertical
5875.00	51.96	34.7	8.59	53.35	41.9	105.2	-63.3	Vertical
5925.00	52.15	34.82	8.63	53.33	42.27	68.2	-25.93	Vertical

Note:

1. Final Level =Receiver Read level + Factor

2. Factor= Antenna Factor + Cable Loss – Preamplifier Factor

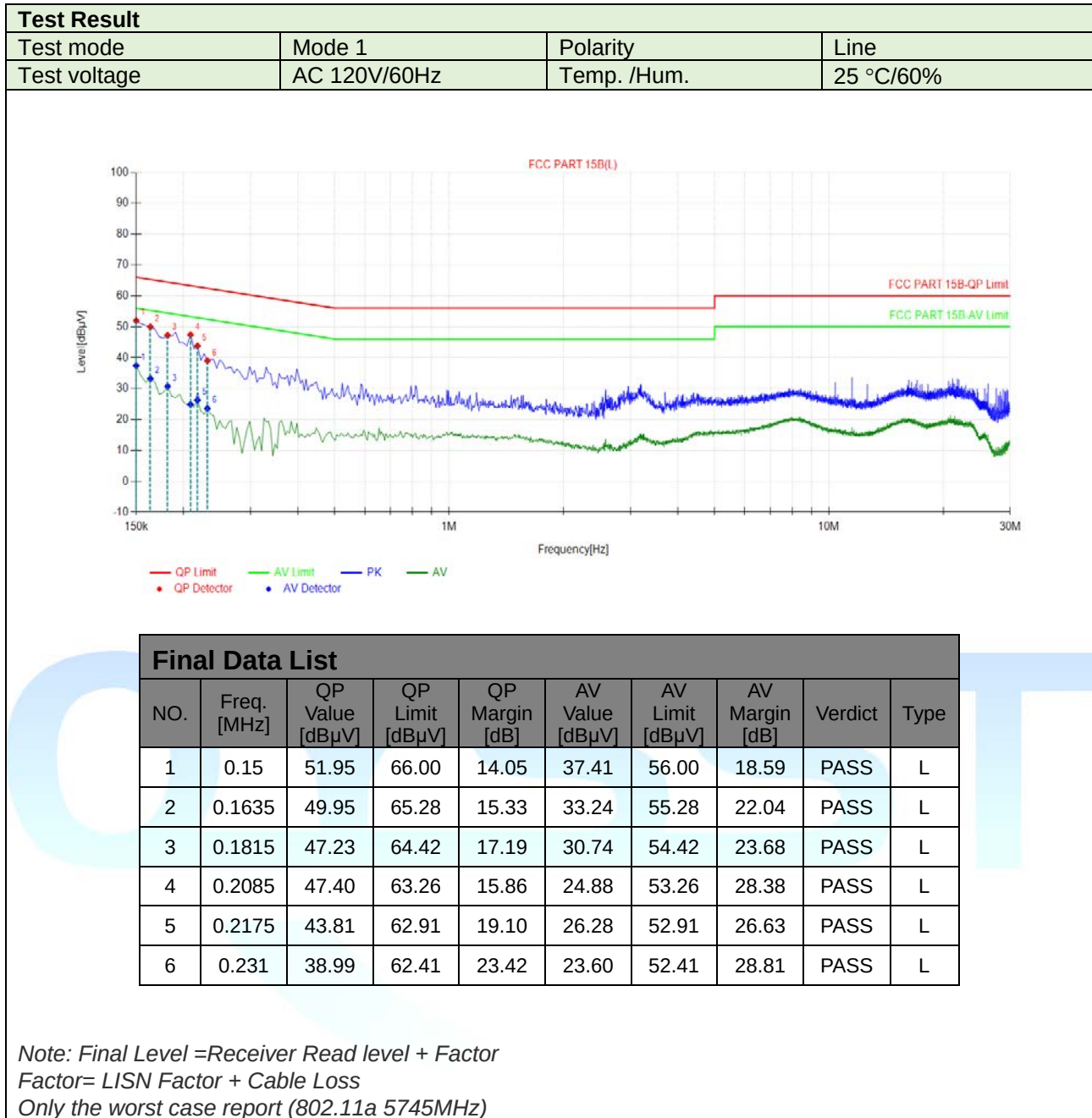
3. Only the worst case report(ANT 2)

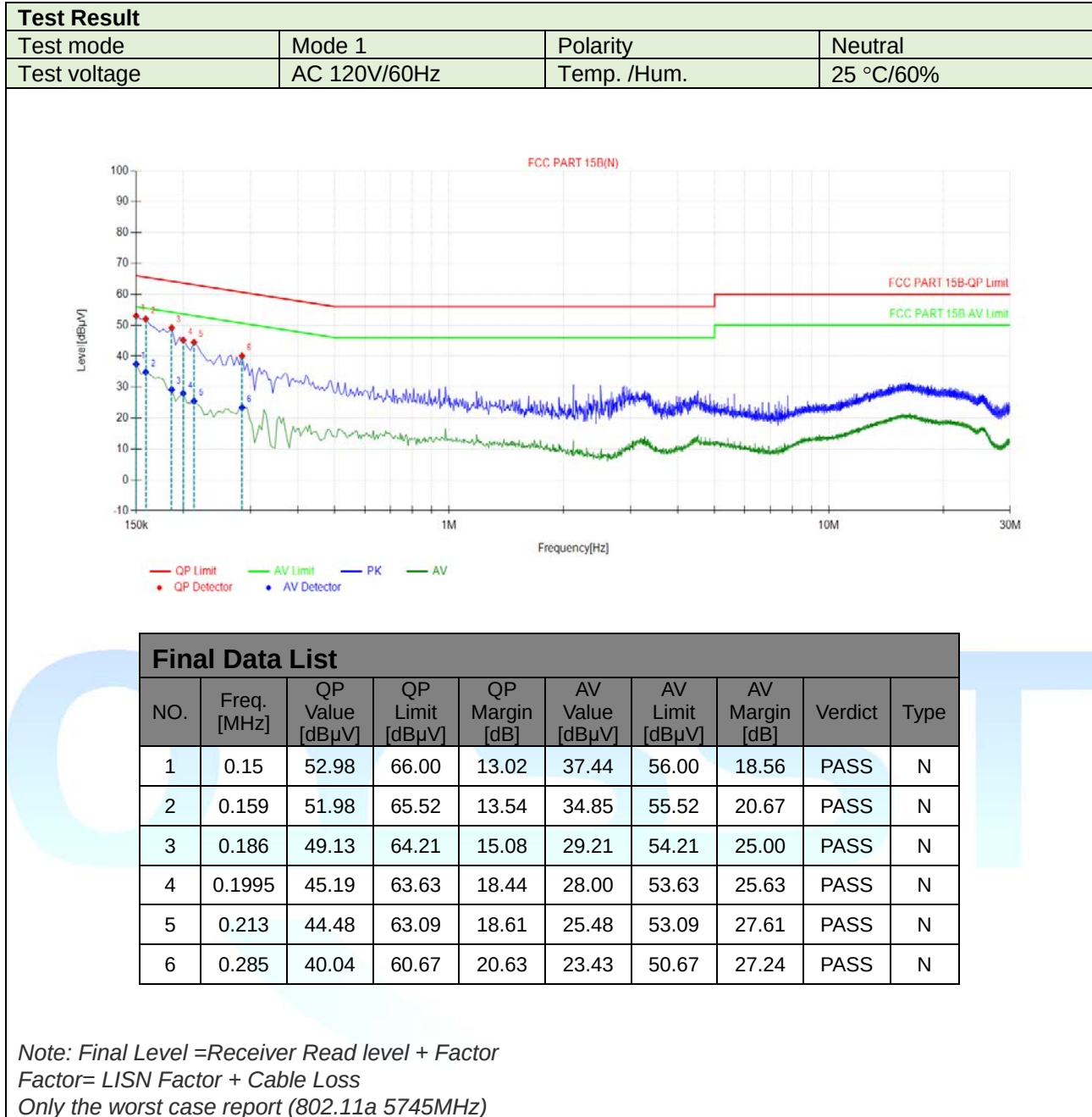
6.8 Conducted Emissions

Limit		
Frequency (MHz)	Quasi-peak	Average
0.15~0.50	66 to 56*	56 to 46*
0.50~5.0	56	46
5.0~30	60	50

*Decreases with the logarithm of the frequency.
If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out

Block diagram of Test Setup		
☒ For table-top equipment		☐ For floor standing equipment
Test Instrument		
Refer to Annex A for details		
Test Procedures		
The measurement was performed in a shield room. Measured levels of ac power-line conducted emission shall be the radio-noise voltage from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), as terminated into a 50 Ω EMI receiver or spectrum analyzer. All radio-noise voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord or calibrated extension cord by the use of mating plugs and receptacles on the EUT and LISN, if used. The manufacturer shall test equipment with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended. For measurements using a LISN, the 50 Ω measuring port is terminated into a 50 Ω EMI receiver or spectrum analyzer. All other ports are terminated into 50 Ω loads. Table top devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs. The bandwidth of the test receiver is set at 9 kHz.		
Verdict		
Pass		





7 Test Setup Photo

Reference to the **appendix I** for details.

8 EUT Constructional Details

Reference to the **appendix II** for details.



Annex A --Test Instruments list

Radiated Emission:						
Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. cycle	Cal.Date
SST-E-SAC001	3m Semi- Anechoic Chamber	BOST	966	/	3 years	2023.01.07
SST-E-SCC001	Control Room	BOST	333	/	3 years	2023.01.07
SST-E-SAC002	Breiband TRILOG Messantenne	Schwarzbeck	VULB 9162	00556	1 year	2024.04.20
SST-E-SAC004	Broad-band Horn Antenna	Schwarzbeck	BBHA 9120 D	02783	1 year	2024.04.16
SST-E-SCC003	EMI Test Receiver	R&S	ESU 8	100372	1 year	2024.04.16
SST-E-SCC004	Amplifier	Schwarzbeck	BBV 9744	00327	1 year	2024.04.16
SST-E-SCC015	Amplifier (1-18GHz)	TSTPASS	LNA10180G45	TSAM2303003	1 year	2024.04.16
SST-E-SCC016	Amplifier (40G)	RFsystem	TRLA-180400G45B	23060801	1 year	2024.04.16
SST-E-SAC006	Broadband Horn Antenna (40G)	Schwarzbeck	BBHA9170	01306	1 year	2024.04.17
SST-E-RSC010	Spectrum analyzer	R&S	FSV40-N	/	1 year	2024.04.16
SST-E-SAC007	Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60B 044	1 year	2024.04.17
SST-E-SAC005	5W 6dB attenuator	/	DC-6GHz	/	Internal calibration	/
SST-E-EMC006	Thermohygrometer	KTJ	TA218A	879030	1 year	2024.04.18
/	EMI Test Software	Tonscend	TS+	/	/	/

Conducted Emission						
Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. cycle	Cal.Date
SST-E-CSC001	Shielding Room	BOST	854	/	3 year	2023.01.07
SST-E-CSC002	EMI Test Receiver	R&S	ESR3	103057	1 year	2024.04.16
SST-E-CSC003	LISN	R&S	ENV 216	102832	1 year	2024.04.16
SST-E-CSC004	ISN	R&S	NTFM 8158	00347	1 year	2024.04.16
SST-E-CSC007	Antenna port test assembly	/	DC-3GHz	/	Internal calibration	/
SST-E-EMC011	Thermohygrometer	KTJ	TA218A	879036	1 year	2024.04.18
/	EMI Test Software	Tonscend	TS+	V4.0	/	/

RF conducted						
Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. cycle	Cal.Date
SST-E-RSC001	Shielding Room	BOST	543	/	3 year	2023.01.07
SST-E-RSC007	Spectrum analyzer	keysight	N9020A	MY51280659	1 year	2024.04.16
SST-E-RSC008	Analog signal source	Agilent	N5181A	MY48180054	1 year	2024.04.16
SST-E-RSC009	Vector signal source	keysight	N5172B	MY57281610	1 year	2024.04.16
SST-E-EMC007	Thermohygrometer	KTJ	TA218A	879032	1 year	2024.04.18
SST-E-RSC010	Spectrum analyzer	R&S	FSV40-N	/	1 year	2024.04.16
SST-E-RSC015-1	Power meter 1	TST	TST V2	/	1 year	2024.04.16
/	Test Software	TST PASS	TST PASS	V2.0	/	/

▶▶▶ END OF REPORT ◀◀◀

