



TEST REPORT

Applicant: Bigme Cloud Literacy Technology Co., Ltd.
Address of Applicant: 01 18F.,COFCO PROPERTY TOWER,BAOMIN NO.1RD.,BAO AN 3RD DISTRICT,SHENZHEN, CHINA
Manufacturer/Factory: Bigme Cloud Literacy Technology Co., Ltd.
Address of Manufacturer: 01 18F.,COFCO PROPERTY TOWER,BAOMIN NO.1RD.,BAO AN 3RD DISTRICT,SHENZHEN, CHINA
Product Name: AINote
Model No.: inkNote Color,inkNoteS Color,inkNoteM Color,inkNoteL Color , inkNoteX Color,inkNote,inkNoteS,inkNoteM,inkNoteL, inkNoteX
Trade Mark: Bigme
FCC ID: 2A8EM-INKNOTE C
Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of Test: Aug.15, 2022 - Aug.24, 2022
Date of report issued: Aug.25,2022
Test Result : PASS *

Remark:

* In the configuration tested, the EUT complied with the standards specified above.

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

Shenzhen ETR Standard Technology Co., Ltd.

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Authorized Signature



Report Revision History

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1. Test Summary

Test Item	Section	Result	Test by
Antenna requirement	FCC part 15.203/15.247 (c) RSS-Gen §6.8	Pass	/
AC Power Line Conducted Emission	FCC part 15.207 RSS-Gen §8.8	Pass	Qiao Li
Conducted Peak Output Power	FCC part 15.247 (b)(3) RSS-247 §5.4.b	Pass	Yvan Fan
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2) RSS-247 §5.2.a RSS-Gen § 6.6	Pass	Yvan Fan
Power Spectral Density	FCC part 15.247 (e) RSS-247 §5.2.b	Pass	Yvan Fan
Band Edge	FCC part 15.247(d) RSS-247 §5.5	Pass	Yvan Fan
Spurious Emission	FCC part 15.205/15.209 RSS-Gen §8.9 §8.10	Pass	Qiao Li

Remark: Test according to ANSI C63.10:2013 and RSS-Gen

Pass: The EUT complies with the essential requirements in the standard.

Measurement Uncertainty

Test Item	Uncertainty Criterion	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	±5%	±0.55%	(1)
RF output power, conducted	±1.5dB	±0.99dB	(1)
Power Spectral Density, conducted	±3dB	±0.61dB	(1)
Unwanted Emissions, conducted	±3dB	±0.64dB	(1)
AC Power Line Conducted Emission	±6dB	± 3.02 dB	(1)
Radiated emissions Below 1GHz	±6dB	±4.30 dB	(1)
Radiated emissions Above 1GHz	±6dB	±4.35 dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

2. General Information

2.1 General Description of EUT

Product Name:	AINote
Model No.:	inkNote Color,inkNoteS Color,inkNoteM Color,inkNoteL Color,inkNoteX Color,inkNote,inkNoteS,inkNoteM,inkNoteL,inkNoteX
Test Model:	inkNote Color
Difference of model(s)	All the models are the same circuit and RF module, except the appearance color.
Hardware version:	N/A
Software version:	N/A
Sample(s) Status	Engineer sample
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel separation:	2MHz
Modulation technology:	GFSK
Battery:	DC 3.7V 4000mAh
Antenna Type:	Integrated antenna
Antenna gain:	-2.0dBi Max
Power supply:	DC5V form adapter with AC 100-240V 50/60Hz or DC 3.7V Battery

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

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)
Lowest channel	2402MHz
Middle channel	2440MHz
Highest channel	2480MHz

2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	Adapter	HUAWEI	5V/2A	/

2.4 Deviation from Standards

None.

2.5 Abnormalities from Standard Conditions

None.

2.6 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064

2.7 Test Location

All tests were performed at:	
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	+86 755 85259392
Fax:	+86 755 27219460

2.8 Additional Instructions

Test Software	Prototype Engineering Mode
Power level setup	Default

3. Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESPI7	100605	2022.3.09	2023.3.08
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2022.3.09	2023.3.08
3	Broadband antenna	schwarabeck	VULB9168	1064	2022.3.11	2024.3.10
4	Horn antenna	schwarabeck	BBHA9120D	9120D-1145	2022.3.09	2023.3.08
5	amplifier	EMtrace	RP01A	50117	2022.3.09	2023.3.08
6	Artificial power network	schwarabeck	NSLK8127	8127483	2022.3.09	2023.3.08
	Artificial power network	ETS	3186/2NM	1132	2022.3.09	2023.3.08
7	10dB attenuator	HUBER+SUHNER	10dB	/	2022.3.09	2023.3.08
8	amplifier	Space-Dtronics	EWLAN0118 G-P40	19113001	2022.3.09	2023.3.08
9	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2022.3.09	2023.3.08
10	Power detector box	MWRFtest	MW100-PSB	MW201020JYT	2021.11.19	2022.11.18

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

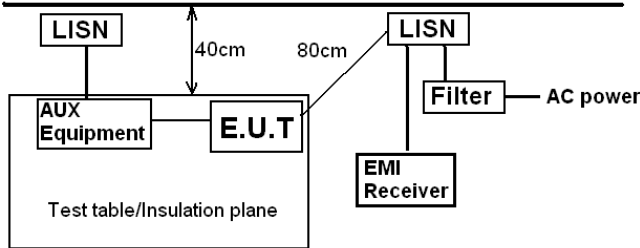
Software Name	Manufacturer	Model	Version
RF test software	MWRFtest	MTS 8310	V2.0.0.0
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE

4. Test results and Measurement Data

4.1 Antenna requirement

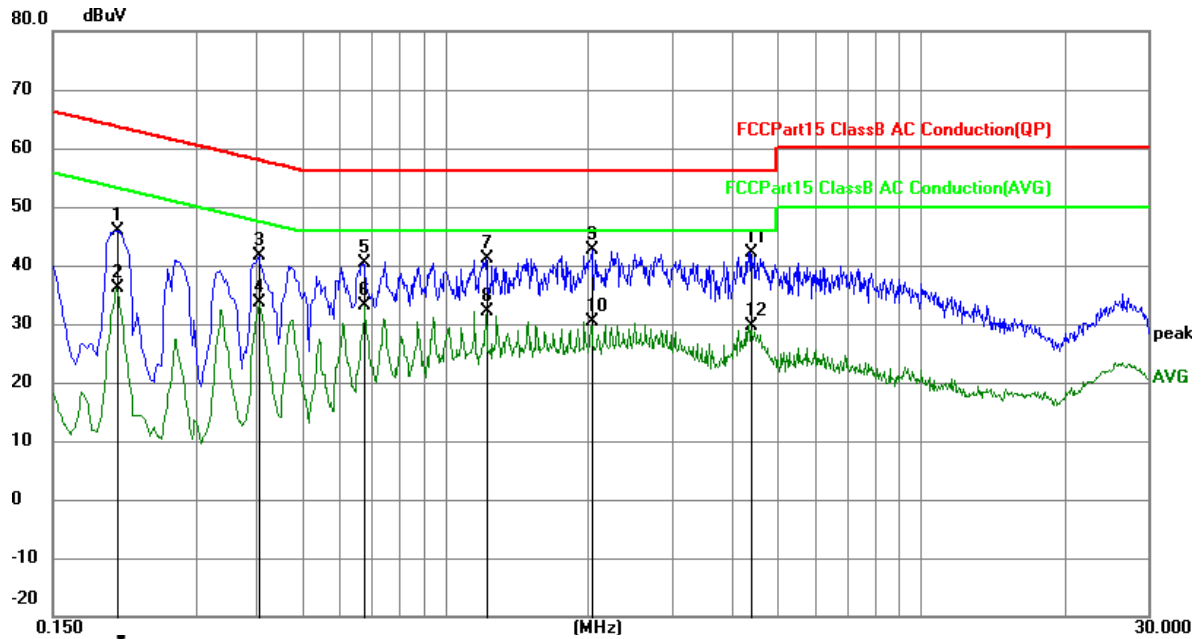
Standard requirement:	FCC Part15 C Section 15.203 /247(c) ,RSS-Gen §6.8
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.	
15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
<i>The antenna is Integrated antenna, the best case gain of the antenna is -2.0dBi Max, reference to the appendix II for details.</i>	

4.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207, RSS-Gen §8.8						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)		Limit (dBuV)				
			Quasi-peak		Average		
	0.15-0.5		66 to 56*		56 to 46*		
	0.5-5		56		46		
	5-30		60		50		
* Decreases with the logarithm of the frequency.							
Test setup:	Reference Plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m						
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.						
Test Instruments:	Refer to section 3.0 for details						
Test mode:	Refer to section 2.2 for details						
Test environment:	Temp.:	24.7°C	Humid.:	50%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

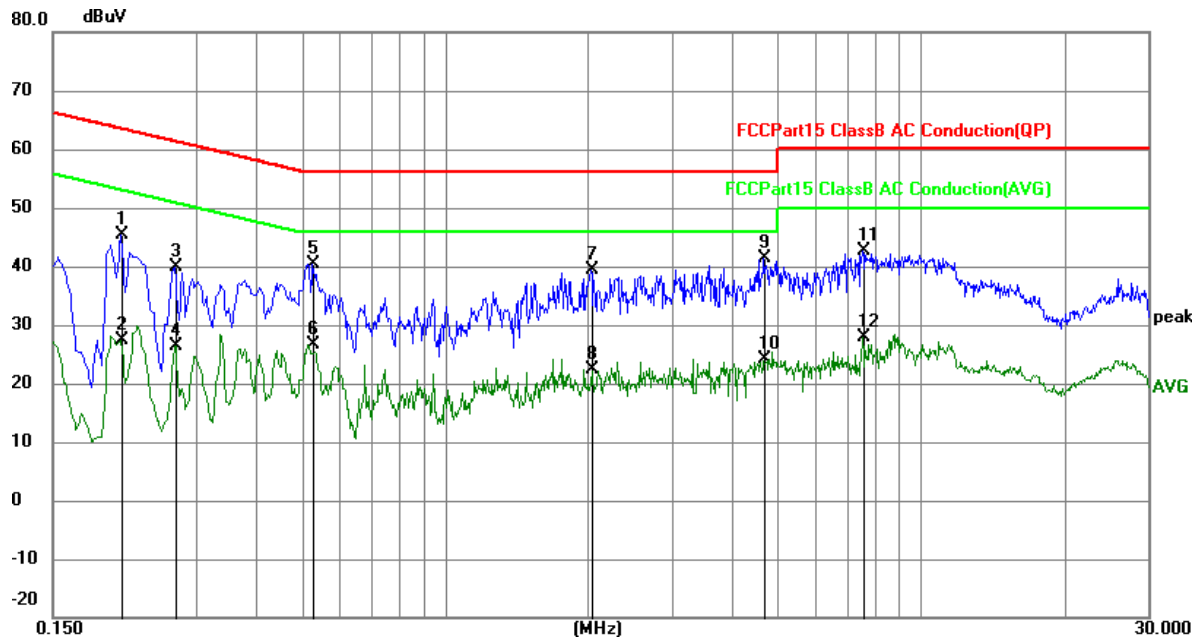
Measurement data

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2040	33.52	12.45	45.97	63.45	-17.48	QP
2	0.2040	23.61	12.45	36.06	53.45	-17.39	AVG
3	0.4065	29.29	12.37	41.66	57.72	-16.06	QP
4	0.4065	21.30	12.37	33.67	47.72	-14.05	AVG
5	0.6720	28.05	12.34	40.39	56.00	-15.61	QP
6	0.6720	20.82	12.34	33.16	46.00	-12.84	AVG
7	1.2210	28.91	12.29	41.20	56.00	-14.80	QP
8	1.2210	19.76	12.29	32.05	46.00	-13.95	AVG
9	2.0355	30.25	12.30	42.55	56.00	-13.45	QP
10	2.0355	18.15	12.30	30.45	46.00	-15.55	AVG
11	4.4069	29.84	12.33	42.17	56.00	-13.83	QP
12	4.4069	17.42	12.33	29.75	46.00	-16.25	AVG

Neutral:

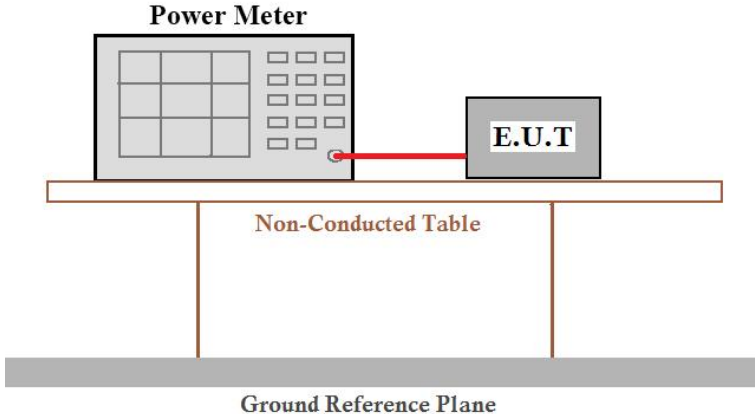


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2084	32.81	12.45	45.26	63.27	-18.01	QP
2	0.2084	14.98	12.45	27.43	53.27	-25.84	AVG
3	0.2714	27.40	12.41	39.81	61.07	-21.26	QP
4	0.2714	14.03	12.41	26.44	51.07	-24.63	AVG
5	0.5279	28.01	12.36	40.37	56.00	-15.63	QP
6	0.5279	14.18	12.36	26.54	46.00	-19.46	AVG
7	2.0307	27.00	12.30	39.30	56.00	-16.70	QP
8	2.0307	9.97	12.30	22.27	46.00	-23.73	AVG
9	4.6769	28.96	12.33	41.29	56.00	-14.71	QP
10	4.6769	11.81	12.33	24.14	46.00	-21.86	AVG
11	7.5300	30.30	12.37	42.67	60.00	-17.33	QP
12	7.5300	15.58	12.37	27.95	50.00	-22.05	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Level = Receiver Read level + Factor (Factor = LISN Factor + Cable Loss + Attenuator Factor)
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

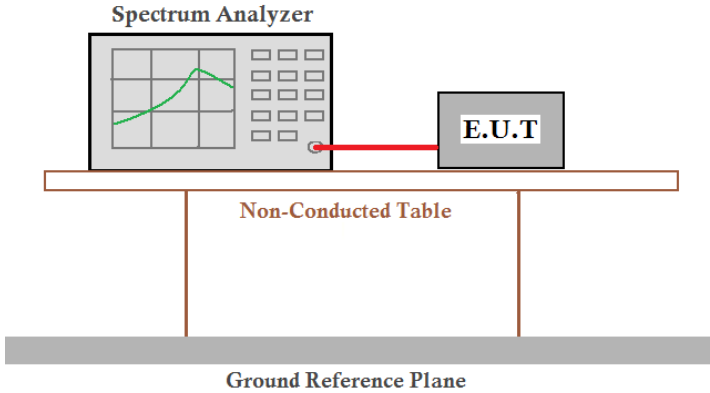
4.3 Conducted Peak Output Power

Test Requirement :	FCC Part15 C Section 15.247 (b)(3) , RSS-247 §5.4.b
Test Method :	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	0.18	30.00	Pass
Middle	1.83		
Highest	1.50		

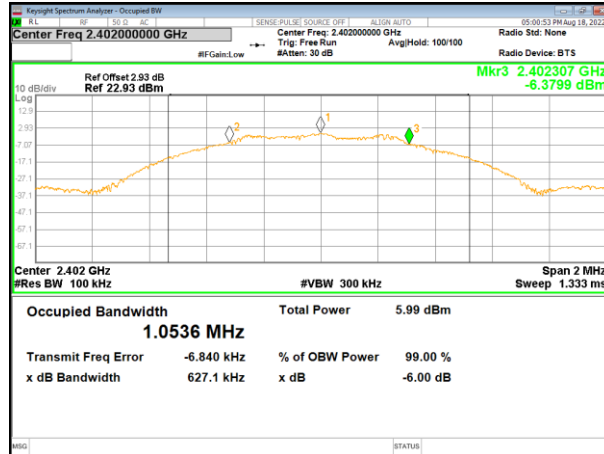
4.4 Channel Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2), RSS-247 §5.2.a
Test Method :	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

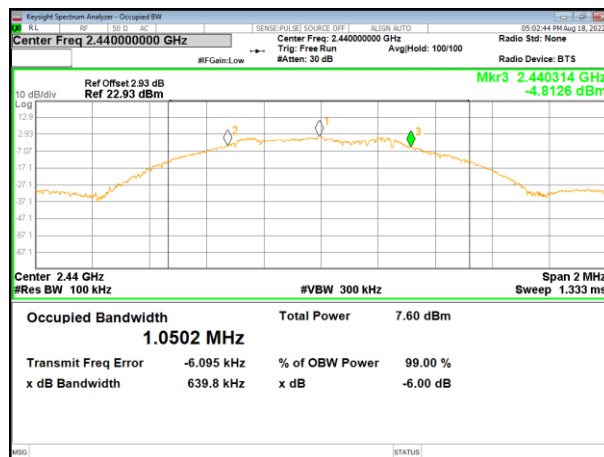
Measurement Data

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.627	>500	Pass
Middle	0.640		
Highest	0.639		

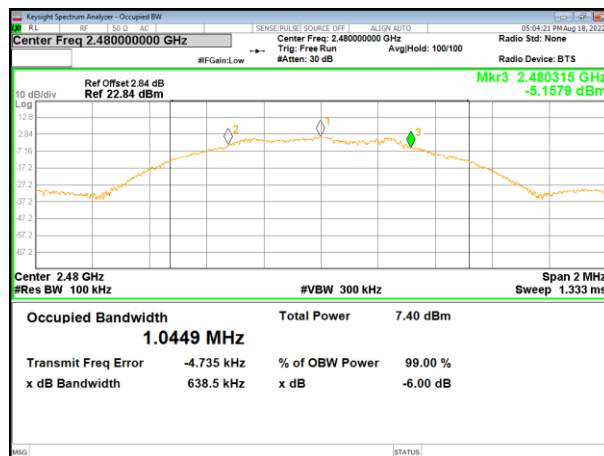
Test plot as follows:



Lowest channel

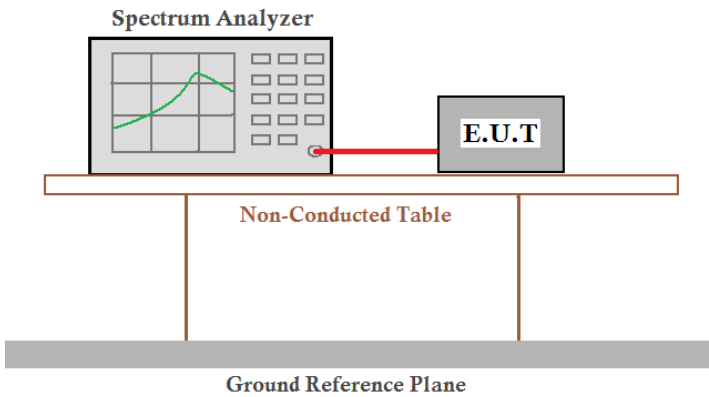


Middle channel



Highest channel

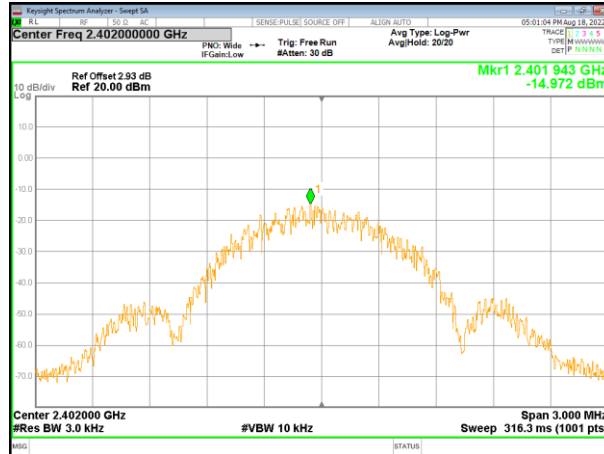
4.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e), RSS-247 §5.2.b
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

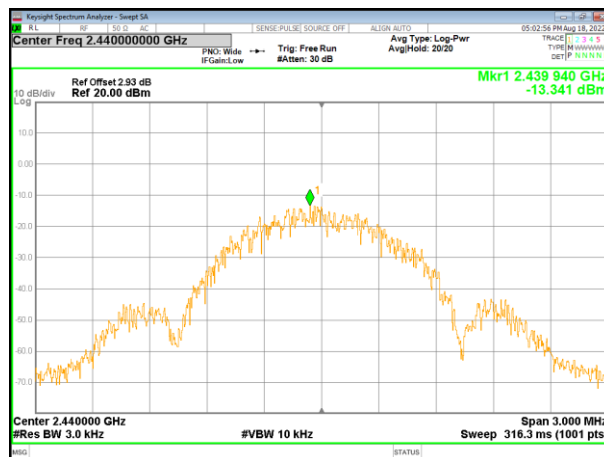
Measurement Data

Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
Lowest	-14.972	8.00	Pass
Middle	-13.341		
Highest	-13.524		

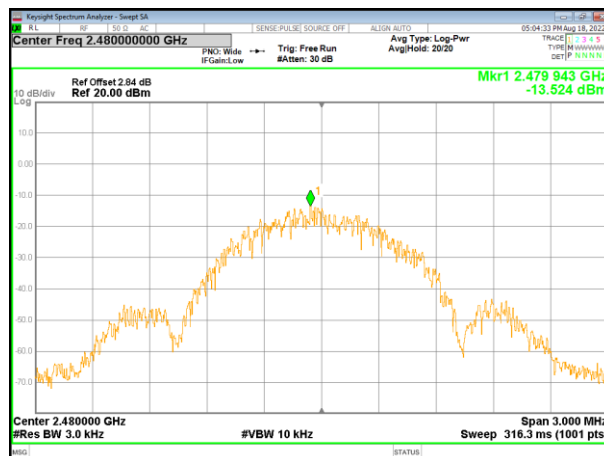
Test plot as follows:



Lowest channel



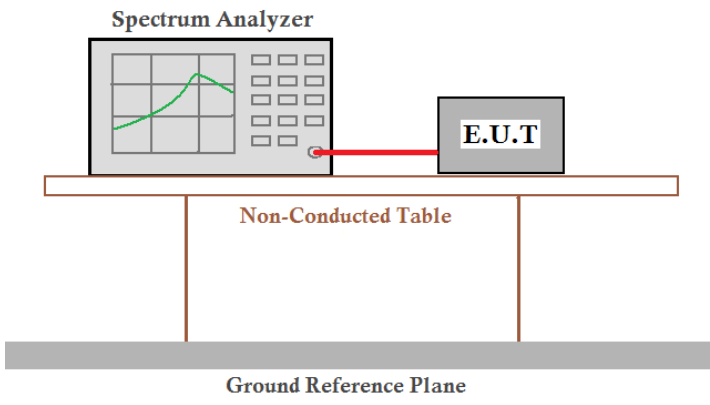
Middle channel



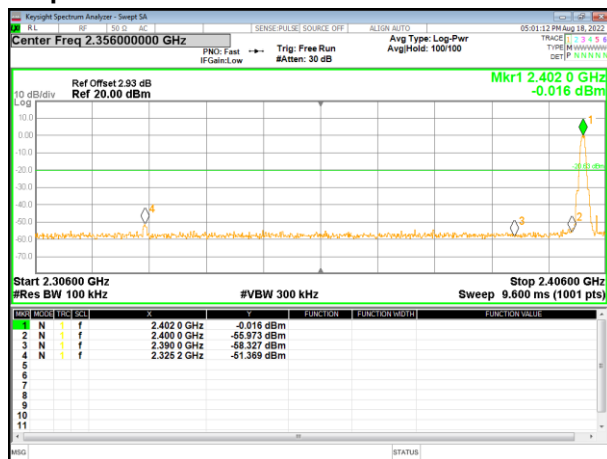
Highest channel

4.6 Band edges

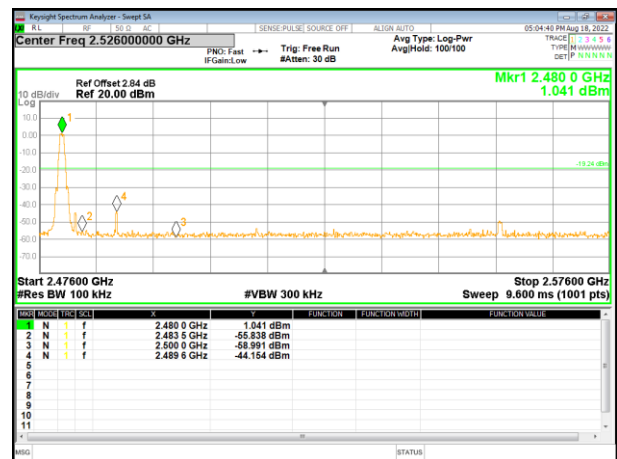
Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d), RSS-247 §5.5
Test Method:	KDB558074 D01 DTS Meas Guidance v05or02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test setup:	
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Test plot as follows:

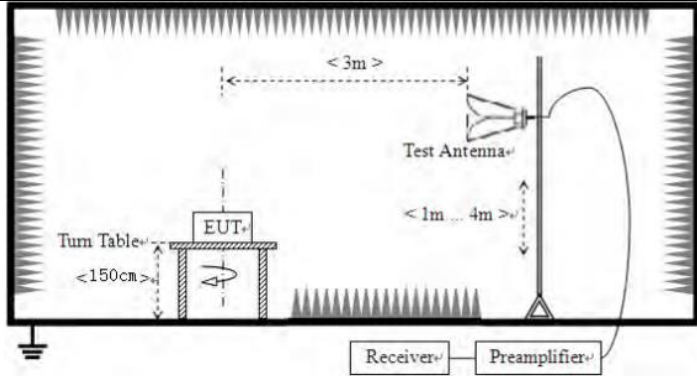


Lowest channel



Highest channel

Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205, RSS-Gen §8.9 §8.10				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 3.0 for details				
Test mode:	Refer to section 2.2 for details				
Test results:	Pass				

Measurement data:

Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	65.53	27.4	3.43	45.4	50.96	74.00	-23.04	Horizontal
2390.00	75.02	27.1	3.43	45.4	60.15	74.00	-13.85	Horizontal
2310.00	64.36	27.4	3.43	45.4	49.79	74.00	-24.21	Vertical
2390.00	75.72	27.1	3.43	45.4	60.85	74.00	-13.15	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	51.53	27.4	3.43	45.4	36.96	54.00	-17.04	Horizontal
2390.00	55.97	27.1	3.43	45.4	41.10	54.00	-12.90	Horizontal
2310.00	52.22	27.4	3.43	45.4	37.65	54.00	-16.35	Vertical
2390.00	57.31	27.1	3.43	45.4	42.44	54.00	-11.56	Vertical

Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	70.19	27.8	3.56	45.4	56.15	74.00	-17.85	Horizontal
2500.00	62.01	27.8	3.56	45.4	47.97	74.00	-26.03	Horizontal
2483.50	69.24	27.8	3.56	45.4	55.20	74.00	-18.80	Vertical
2500.00	63.33	27.8	3.56	45.4	49.29	74.00	-24.71	Vertical

Average value:

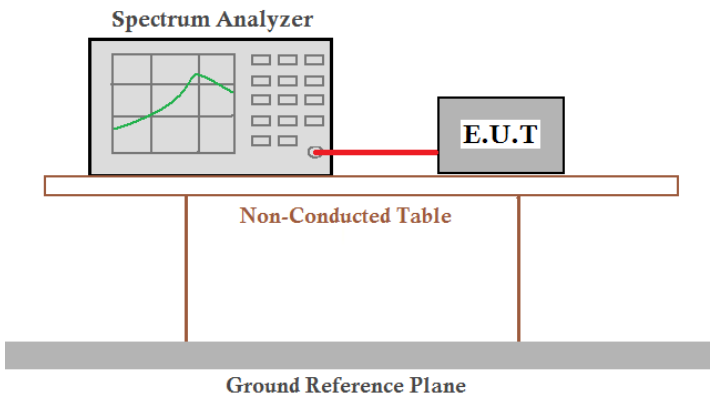
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	56.85	27.80	3.56	45.4	42.81	54.00	-11.19	Horizontal
2500.00	52.28	27.80	3.56	45.4	38.24	54.00	-15.76	Horizontal
2483.50	58.74	27.80	3.56	45.4	44.70	54.00	-9.30	Vertical
2500.00	52.86	27.80	3.56	45.4	38.82	54.00	-15.18	Vertical

Remarks:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

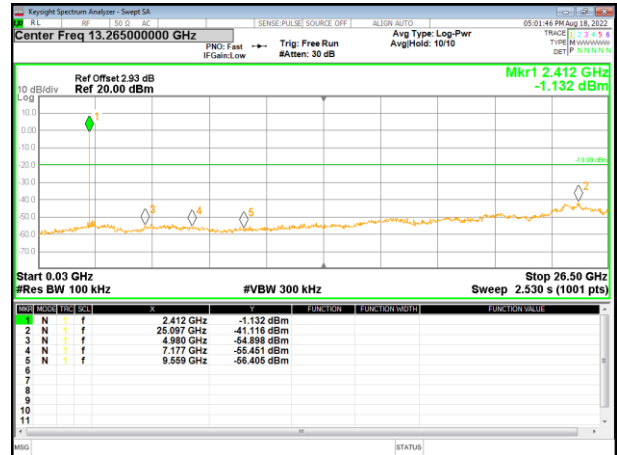
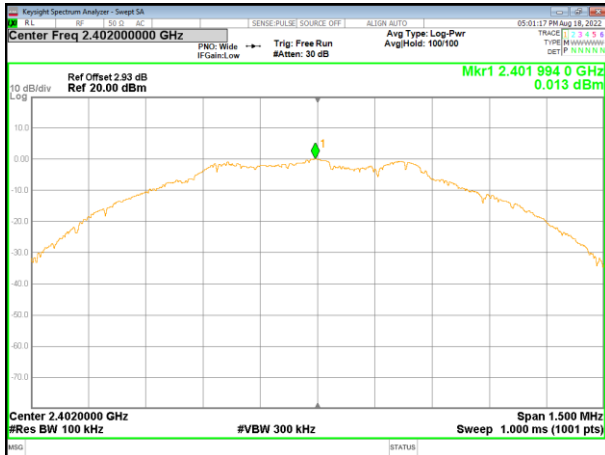
4.7 Spurious Emission

Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d), RSS-Gen §8.9 §8.10
Test Method:	KDB558074 D01 DTS Meas Guidance v05or02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

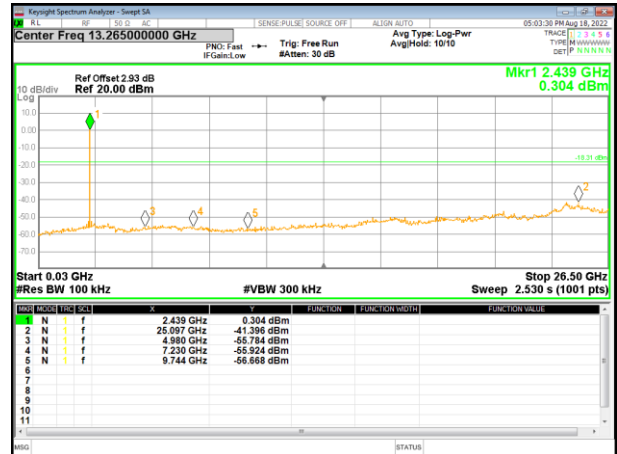
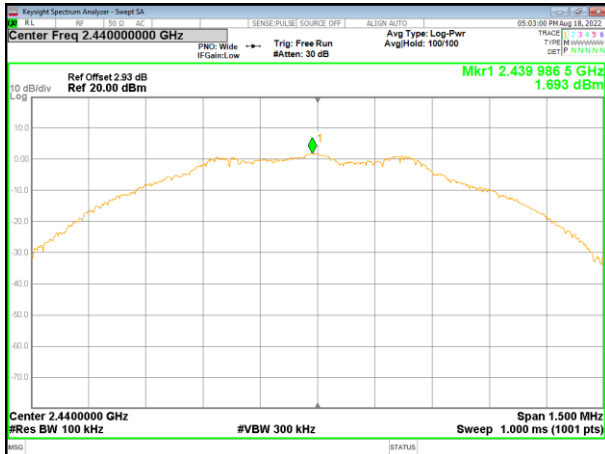
Test plot as follows:

Lowest channel



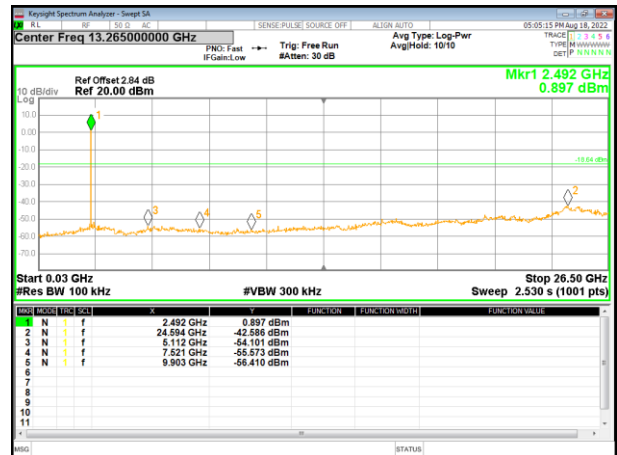
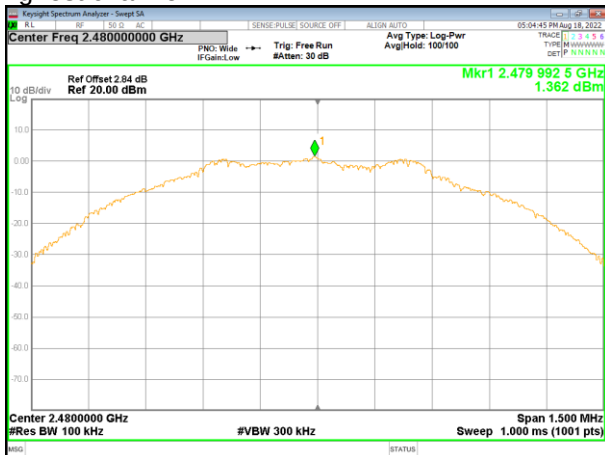
30MHz~26.5GHz

Middle channel



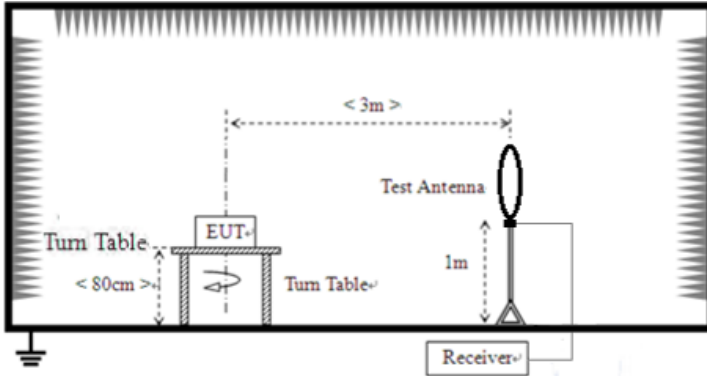
30MHz~26.5GHz

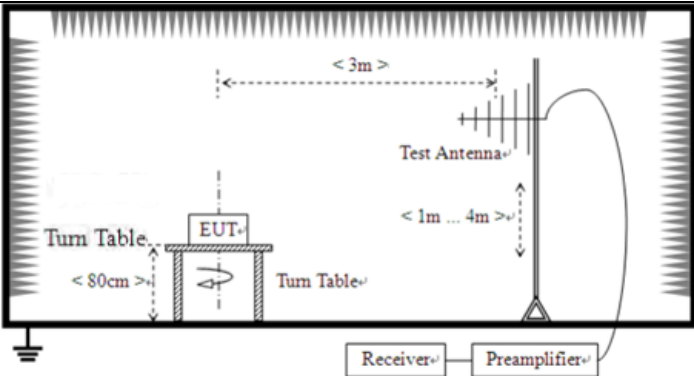
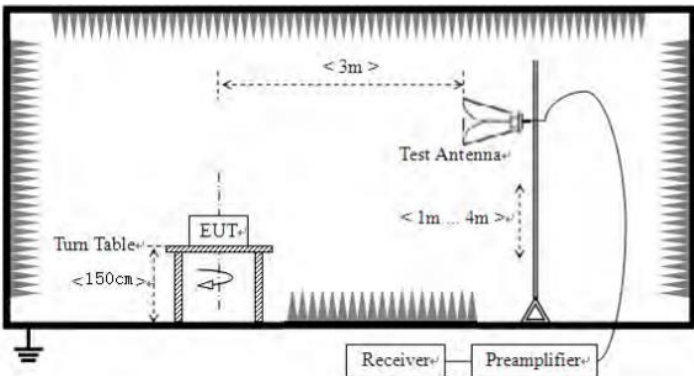
Highest channel



30MHz~26.5GHz

Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 , RSS-Gen §8.9 §8.10				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
	For radiated emissions from 30MHz to1GHz				

	 For radiated emissions above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details



Test voltage:	DC 5V From adapter with AC120V 60Hz					
Test environment:	Temp.:	24.9 °C	Humid.:	51%	Press.:	1012mbar
Test results:	Pass					

Remarks:

- 1. The report only shows the worst mode.*
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

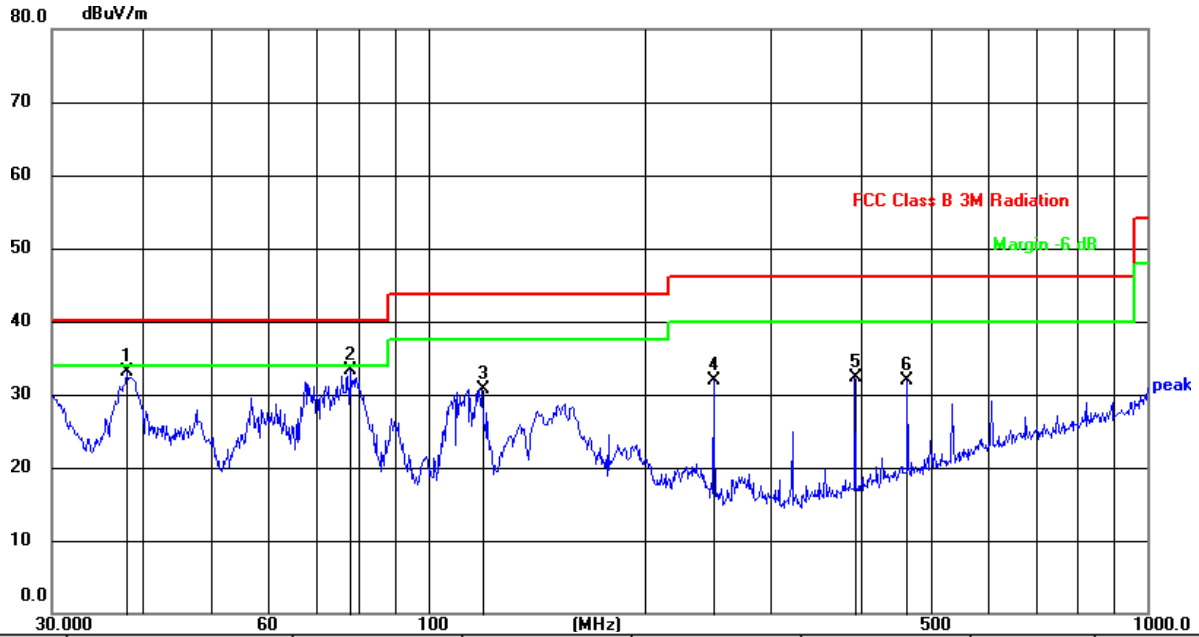
Measurement data:

■ **9kHz~30MHz**

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) & RSS-Gen 6.13, the test result no need to reported.

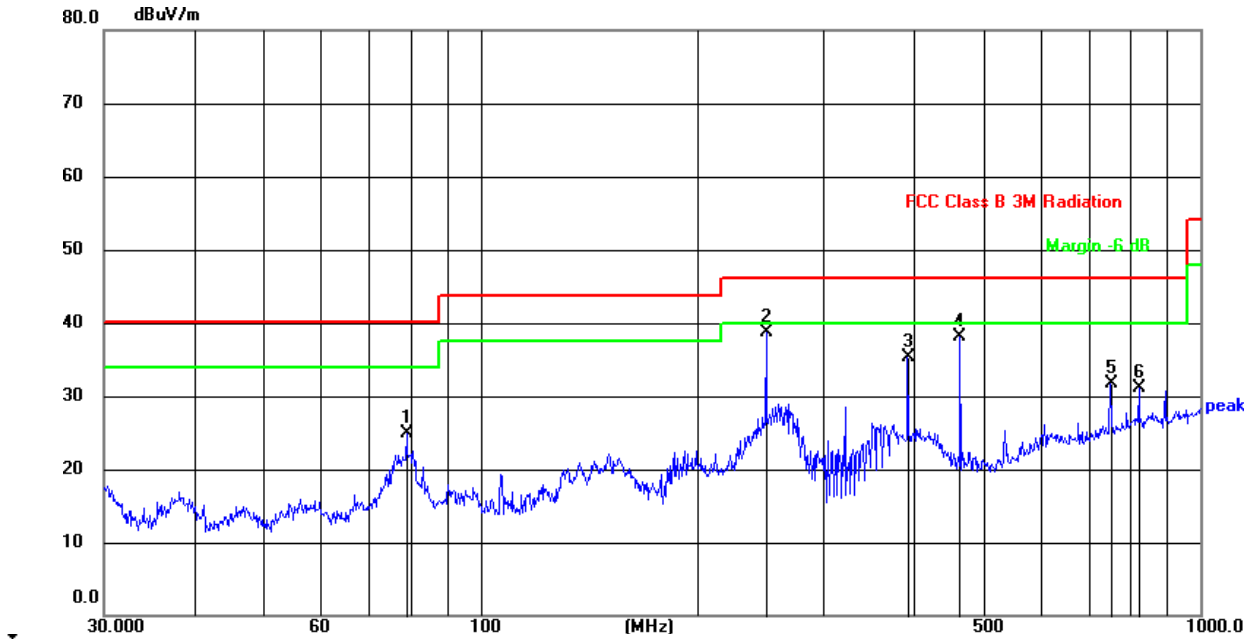
■ Below 1GHz

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.0783	53.91	-20.86	33.05	40.00	-6.95	QP
2	77.8654	53.74	-20.34	33.40	40.00	-6.60	QP
3	119.0180	49.88	-19.13	30.75	43.50	-12.75	QP
4	249.4250	50.03	-18.21	31.82	46.00	-14.18	QP
5	392.0951	48.88	-16.61	32.27	46.00	-13.73	QP
6	463.9696	46.30	-14.49	31.81	46.00	-14.19	QP

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	78.9652	45.42	-20.51	24.91	40.00	-15.09	QP
2	249.4250	57.01	-18.21	38.80	46.00	-7.20	QP
3	392.0951	51.89	-16.61	35.28	46.00	-10.72	QP
4	463.9696	52.59	-14.49	38.10	46.00	-7.90	QP
5	750.1083	39.88	-8.17	31.71	46.00	-14.29	QP
6	821.7103	38.28	-7.24	31.04	46.00	-14.96	QP

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor – Preamplifier Factor

■ Above 1GHz

Test channel:	Lowest
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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
4804.00	61.94	32.10	5.96	45.70	54.30	74.00	-19.70	Vertical
7206.00	58.26	36.10	6.86	45.50	55.72	74.00	-18.28	Vertical
9608.00	54.22	38.30	8.25	46.20	54.57	74.00	-19.43	Vertical
12010.00	*	--	--	--	--	74.00	--	Vertical
14412.00	*	--	--	--	--	74.00	--	Vertical
4804.00	63.38	32.10	5.96	45.70	55.74	74.00	-18.26	Horizontal
7206.00	57.52	36.10	6.86	45.50	54.98	74.00	-19.02	Horizontal
9608.00	55.87	38.30	8.25	46.20	56.22	74.00	-17.78	Horizontal
12010.00	*	--	--	--	--	74.00	--	Horizontal
14412.00	*	--	--	--	--	74.00	--	Horizontal

Average 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
4804.00	46.99	32.10	5.96	45.70	39.35	54.00	-14.65	Vertical
7206.00	40.98	36.10	6.86	45.50	38.44	54.00	-15.56	Vertical
9608.00	39.77	38.30	8.25	46.20	40.12	54.00	-13.88	Vertical
12010.00	*	--	--	--	--	54.00	--	Vertical
14412.00	*	--	--	--	--	54.00	--	Vertical
4804.00	47.50	32.10	5.96	45.70	39.86	54.00	-14.14	Horizontal
7206.00	41.59	36.10	6.86	45.50	39.05	54.00	-14.95	Horizontal
9608.00	39.52	38.30	8.25	46.20	39.87	54.00	-14.13	Horizontal
12010.00	*	--	--	--	--	54.00	--	Horizontal
14412.00	*	--	--	--	--	54.00	--	Horizontal

Remarks:

1. Level = Read level + Antenna Factor + Cable Loss – Preamp Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel:	Middle
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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
4880.00	64.24	32.10	5.96	45.70	56.60	74.00	-17.40	Vertical
7320.00	59.38	36.80	6.86	45.50	57.54	74.00	-16.46	Vertical
9760.00	57.46	38.40	8.25	46.20	57.91	74.00	-16.09	Vertical
12200.00	*	--	--	--	--	74.00	--	Vertical
14640.00	*	--	--	--	--	74.00	--	Vertical
4880.00	63.26	32.10	5.96	45.70	55.62	74.00	-18.38	Horizontal
7320.00	57.88	36.80	6.86	45.50	56.04	74.00	-17.96	Horizontal
9760.00	52.94	38.40	8.25	46.20	53.39	74.00	-20.61	Horizontal
12200.00	*	--	--	--	--	74.00	--	Horizontal
14640.00	*	--	--	--	--	74.00	--	Horizontal

Average 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
4880.00	51.47	32.10	5.96	45.70	43.83	54.00	-10.17	Vertical
7320.00	44.49	36.80	6.86	45.50	42.65	54.00	-11.35	Vertical
9760.00	42.77	38.40	8.25	46.20	43.22	54.00	-10.78	Vertical
12200.00	*	--	--	--	--	54.00	--	Vertical
14640.00	*	--	--	--	--	54.00	--	Vertical
4880.00	51.76	32.10	5.96	45.70	44.12	54.00	-9.88	Horizontal
7320.00	46.83	36.80	6.86	45.50	44.99	54.00	-9.01	Horizontal
9760.00	43.92	38.40	8.25	46.20	44.37	54.00	-9.63	Horizontal
12200.00	*	--	--	--	--	54.00	--	Horizontal
14640.00	*	--	--	--	--	54.00	--	Horizontal

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*”, means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel:	Highest
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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
4960.00	61.03	32.70	5.96	45.70	53.99	74.00	-20.01	Vertical
7440.00	56.69	36.40	6.86	45.50	54.45	74.00	-19.55	Vertical
9920.00	55.07	38.00	8.25	46.20	55.12	74.00	-18.88	Vertical
12400.00	*	--	--	--	--	74.00	--	Vertical
14880.00	*	--	--	--	--	74.00	--	Vertical
4960.00	63.21	32.70	5.9 6	45.7	56.17	74.00	-17.83	Horizontal
7440.00	58.72	36.40	6.86	45.5	56.48	74.00	-17.52	Horizontal
9920.00	57.67	38.00	8.25	46.2	57.72	74.00	-16.28	Horizontal
12400.00	*	--	--	--	--	74.00	--	Horizontal
14880.00	*	--	--	--	--	74.00	--	Horizontal

Average 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
4960.00	45.39	32.70	5.96	45.7	38.35	54.00	-15.65	Vertical
7440.00	41.77	36.40	6.86	45.5	39.53	54.00	-14.47	Vertical
9920.00	42.33	38.00	8.25	46.2	42.38	54.00	-11.62	Vertical
12400.00	*	--	--	--	--	54.00	--	Vertical
14880.00	*	--	--	--	--	54.00	--	Vertical
4960.00	49.14	32.70	5.96	45.7	42.10	54.00	-11.9	Horizontal
7440.00	44.75	36.40	6.86	45.5	42.51	54.00	-11.49	Horizontal
9920.00	43.74	38.00	8.25	46.2	43.79	54.00	-10.21	Horizontal
12400.00	*	--	--	--	--	54.00	--	Horizontal
14880.00	*	--	--	--	--	54.00	--	Horizontal

Remarks:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

5. Test Setup Photo

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

6. EUT Constructional Details

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

-----End-----