

Testing Laboratory 0659



FCC Radio Test Report FCC ID: M82-SCN100

Report No. : BTL-FCCP-2-2212T004

Equipment: Computer

Model Name : SCN-100-9, SCN-100-9xxxxxxxxxxxxx (where "x" may be any

alphanumeric character, "-" or blank for marketing purpose and no impact

safety related critical components and constructions)

Brand Name

(1) ADVANTECH or ADVANTECH

SCANIA (2)

Applicant: Advantech Co., Ltd.

Address : No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491,

Taiwan.

Radio Function : Bluetooth Low Energy 5.2

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.247)

Measurement : ANSI C63.10-2013

Measurement Procedure(s)

Date of Receipt : 2022/12/9

Date of Test : 2023/1/30 ~ 2023/10/13

Issued Date : 2023/11/7

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by

Approved by

Jerry Chuang, Supervisor

Peter Chen, Manager

BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Project No.: 2212T004 Page 1 of 51 Report Version: R01





Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Project No.: 2212T004 Page 2 of 51 Report Version: R01





CONTENTS 1 SUMMARY OF TEST RESULTS 6 1.1 TEST FACILITY 7 1.2 MEASUREMENT UNCERTAINTY 7 **TEST ENVIRONMENT CONDITIONS** 1.3 7 1.4 **DUTY CYCLE** 8 2 **GENERAL INFORMATION** 9 2.1 **DESCRIPTION OF EUT** 9 2.2 **TEST MODES** 11 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 2.3 12 2.4 SUPPORT UNITS 13 3 AC POWER LINE CONDUCTED EMISSIONS TEST 14 3.1 LIMIT 14 3.2 TEST PROCEDURE 14 **DEVIATION FROM TEST STANDARD** 3.3 14 **TEST SETUP** 3.4 15 3.5 **TEST RESULT** 15 RADIATED EMISSIONS TEST 4 16 4.1 LIMIT 16 4.2 **TEST PROCEDURE** 17 4.3 **DEVIATION FROM TEST STANDARD** 17 **TEST SETUP** 17 4.4 4.5 **EUT OPERATING CONDITIONS** 18 4.6 TEST RESULT - BELOW 30 MHZ 19 4.7 TEST RESULT - 30 MHZ TO 1 GHZ 19 4.8 TEST RESULT - ABOVE 1 GHZ 19 5 **BANDWIDTH TEST** 20 5.1 APPLIED PROCEDURES / LIMIT 20 **TEST PROCEDURE** 20 5.2 **DEVIATION FROM STANDARD** 5.3 20 5.4 **TEST SETUP** 20 5.5 **EUT OPERATION CONDITIONS** 20 **TEST RESULTS** 5.6 20 **OUTPUT POWER TEST** 6 21 6.1 LIMIT 21 **TEST PROCEDURE** 6.2 21 6.3 **DEVIATION FROM STANDARD** 21 **TEST SETUP** 6.4 21 **EUT OPERATION CONDITIONS** 6.5 21 6.6 **TEST RESULTS** 21 7 POWER SPECTRAL DENSITY TEST 22 7.1 APPLIED PROCEDURES / LIMIT 22 7.2 **TEST PROCEDURE** 22 7.3 **DEVIATION FROM STANDARD** 22 7.4 **TEST SETUP** 22 7.5 **EUT OPERATION CONDITIONS** 22 7.6 TEST RESULTS 22 ANTENNA CONDUCTED SPURIOUS EMISSION 8 23



8.1	APPL	ED PROCEDURES / LIMIT	23
8.2	TEST	PROCEDURE	23
8.3	DEVIA	ATION FROM STANDARD	23
8.4	TEST	SETUP	23
8.5	EUT C	PERATION CONDITIONS	23
8.6	TEST	RESULTS	23
9	LIST OF	MEASURING EQUIPMENTS	24
10	EUT TES	ST PHOTO	26
11	EUT PHO	OTOS	26
APPEND	IX A	AC POWER LINE CONDUCTED EMISSIONS	27
APPEND	IX B	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ	32
APPEND	IX C	RADIATED EMISSIONS - ABOVE 1 GHZ	35
APPEND	IX D	BANDWIDTH	44
APPEND	IX E	OUTPUT POWER	46
APPEND	IX F	POWER SPECTRAL DENSITY TEST	48
APPEND	IX G	ANTENNA CONDUCTED SPURIOUS EMISSION	50

Project No.: 2212T004 Page 4 of 51 Report Version: R01



REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2212T004	R00	Original Report.	2023/9/4	Invalid
BTL-FCCP-2-2212T004	R01	Added conducted test items.	2023/11/7	Valid

Project No.: 2212T004 Page 5 of 51 Report Version: R01



SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX B APPENDIX C	Pass	
15.247(a)(2)	Bandwidth	APPENDIX D	Pass	
15.247(b)(3)	Output Power	APPENDIX E	Pass	
15.247(e)	Power Spectral Density	APPENDIX F	Pass	
15.247(d)	Antenna conducted Spurious Emission	APPENDIX G	Pass	
15.203	Antenna Requirement		Pass	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.(2) The report format version is TP.1.1.1.

Project No.: 2212T004 Page 6 of 51 Report Version: R01

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659. The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

(FCC DN: TW0659)

□ CB08

☐ CB11

⊠ SR10

⊠ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

(FCC DN: TW0659)

□ C06

□ CB22

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = \mathbf{2}$, providing a level of confidence of approximately $\mathbf{95}$ %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 \mathbf{U}_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test:

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB21	1 GHz ~ 6 GHz	5.21
CB21	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test:

u test.	
Test Item	U,(dB)
Occupied Bandwidth	0.5334
Output Power	0.3669
Power Spectral Density	0.6591
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5348

NOTE

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	16 °C, 63 %	AC 120V	Jay Tien
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Bandwidth	25.8 °C, 56 %	AC 120V	Jerry Chuang
Output Power	22.1 °C, 49 %	AC 120V	Jay Tien
Power Spectral Density	25.8 °C, 56 %	AC 120V	Jerry Chuang
Antenna conducted Spurious Emission	25.8 °C, 56 %	AC 120V	Jerry Chuang

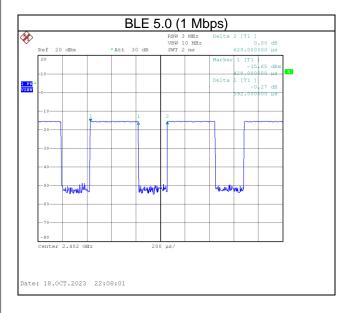
Project No.: 2212T004 Page 7 of 51 Report Version: R01



1.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle	Duty Factor
Mode	(ms)	(ON)	(ms)	(ms)	(%)	(dB)
BLE 5.0 (1 Mbps)	0.380	1	0.380	0.630	60.32%	2.20



Project No.: 2212T004 Page 8 of 51 Report Version: R01



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Computer
Model Name	SCN-100-9, SCN-100-9xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Brand Name	(1) ADVANTECH or ADVANTECH (2) SCANIA
Model Difference	Different model distribute to different area.
Power Source	DC voltage supplied from AC/DC Adapter.
Power Rating	EUT: 12-32Vdc, 10-3.75A For Adapter: I/P: 100-240V~2.3A, 50-60Hz O/P: 24.0V—7.5A 180.0W
Products Covered	1 * Adapter: FSP / FSP180-AAAN3
WIFI+BT Module	Intel® Wi-Fi 6E AX210 / AX210NGW
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2402 MHz ~ 2480 MHz
	1 Mbps: 9.95 dBm (0.0099 W)
Test Software Version	DRTU V03227.22.190.0
Test Model	SCN-100-9
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

Project No.: 2212T004 Page 9 of 51 Report Version: R01



(3) Table for Filed Antenna:

Antenn	a Manufacture	Part Number	Туре	Connector	Frequency Range (MHz)	Gain (dBi)
	\		РСВ	I-PEX MFH4L	2400-2500	5.34
1	TAOGLAS.	PC165.54.0076A			5150-5725	4.95
					5725-5850	5.33
	_	\		I-PEX MFH4L	2400-2500	4.14
2	TAOGLAS.	PC166.54.0061A	PCB		5150-5725	6.76
	IAOGLAS.				5725-5850	6.52

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Project No.: 2212T004 Page 10 of 51 Report Version: R01



2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	1 Mbps	39	-
Transmitter Radiated Emissions	1 Mbps	00/39	Bandedge
(above 1GHz)	1 Mbps	00/19/39	Harmonic
Bandwidth	1 Mbps	00/19/39	-
Output Power	1 Mbps	00/19/39	-
Power Spectral Density	1 Mbps	00/19/39	-
Antenna conducted Spurious Emission	1 Mbps	00/19/39	-

NOTE:

(1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.

(2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

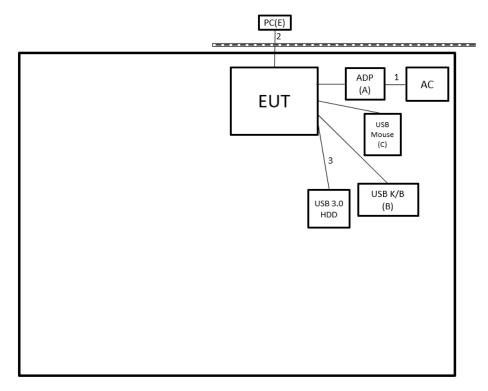
Project No.: 2212T004 Page 11 of 51 Report Version: R01



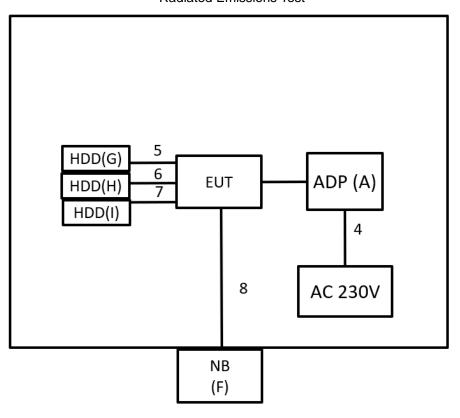
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions Test



Project No.: 2212T004 Page 12 of 51 Report Version: R01



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	ADP	FSP GROUP	FSP180-AAAN3	N/A	Supplied by test requester.
В	USB K/B	DELL	KB216t	CN-0W33XP-L0 300-797-05TY-A 03	Furnished by test lab.
С	USB Mouse	DELL	MOCZUL	CN-049TWY-PR C00-79E-01HA	Furnished by test lab.
D	USB 3.0 HDD	WD	WDBC3C0010BS L-0B	WX81A88ALJU C	Furnished by test lab.
Е	PC	DELL	OptiPlex 790 MT	64NJVBX	Furnished by test lab.
F	NB	HP	TPN-C125	N/A	Furnished by test lab.
G	USB 2.5" HDD	AKITIO	Neutrino U3.1	SK21D1621D00 3F	Furnished by test lab.
Н	USB 2.5" HDD	AKITIO	Neutrino U3.1	SK21D1621D00 3F	Furnished by test lab.
I	USB 3.0 HDD	WD	WDBC3C0010BS L-0B	WX81A88ALJU C	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1.8m	Power Cable	Furnished by test lab.
2	N/A	N/A	6m	RJ-45 Cable	Furnished by test lab.
3	N/A	N/A	1.5m	USB to TypeC Cale	Furnished by test lab.
4	N/A	N/A	1m	Power Cable	Furnished by test lab.
5	N/A	N/A	0.6m	TypeC to TypeC Cable	Furnished by test lab.
6	N/A	N/A	1m	TypeC to TypeC Cable	Furnished by test lab.
7	N/A	N/A	0.3m	TypeC to TypeC Cable	Furnished by test lab.
8	N/A	N/A	12m	RJ45 Cable	Furnished by test lab.



3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)		
(MHz)	Quasi-peak	Average	
0.15 - 0.5	66 - 56 *	56 - 46 *	
0.50 - 5.0	56	46	
5.0 - 30.0	60	50	

NOTE:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

(3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBuV)		Correct Factor (dB)		Measurement Value (dBuV)
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
(dBuV)		(dBuV)		(dB)
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 - All other support equipment were powered from an additional LISN(s).
 - The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 - The end of the cable will be terminated, using the correct terminating impedance.
 - The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

NOTE:

- In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

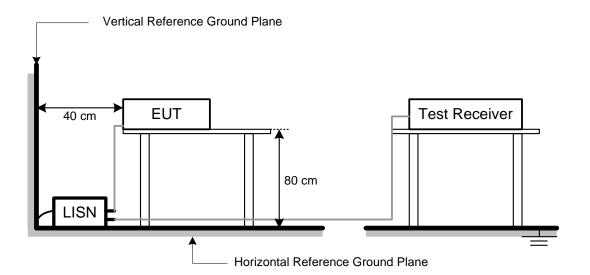
3.3 DEVIATION FROM TEST STANDARD

No deviation.

Project No.: 2212T004 Page 14 of 51 Report Version: R01



3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.



4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

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
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency		Emissions V/m)	Measurement Distance
(MHz)	Peak	Average	(meters)
Above 1000	74	54	3

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
(dBuV)		(dB)		(dBuV/m)
19.11	+	2.11	=	21.22

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
21.22	-	54	=	-32.78

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RBW / VBW	1MHz / 3MHz for Peak,		
(Emission in restricted band)	1MHz / 1/T for Average		

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

Project No.: 2212T004 Page 16 of 51 Report Version: R01



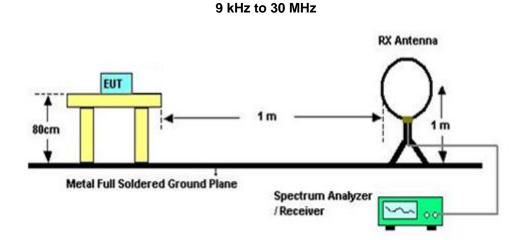
4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

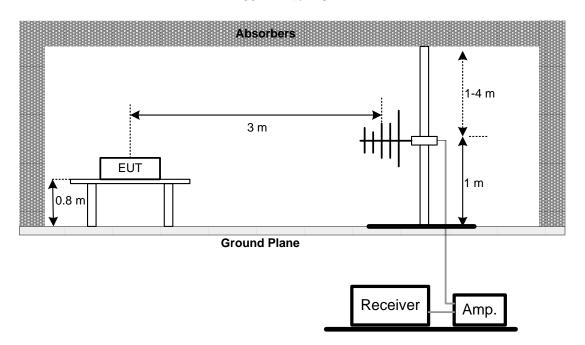
No deviation.

4.4 TEST SETUP

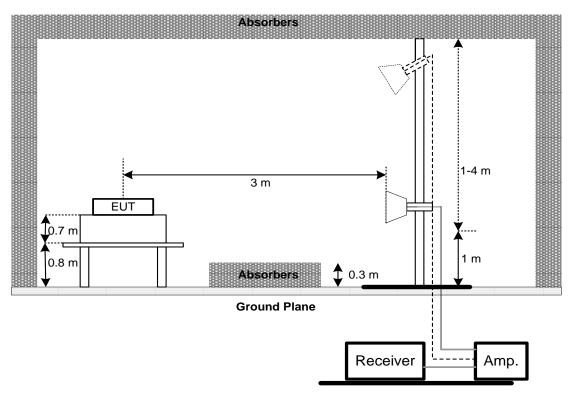




30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



4.6 TEST RESULT - BELOW 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

4.7 TEST RESULT - 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.8 TEST RESULT - ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

Project No.: 2212T004 Page 19 of 51 Report Version: R01



5 BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz	2400-2483.5	PASS
		(6dB bandwidth)		

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

Please refer to the APPENDIX D.

Project No.: 2212T004 Page 20 of 51 Report Version: R01

6 OUTPUT POWER TEST

6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

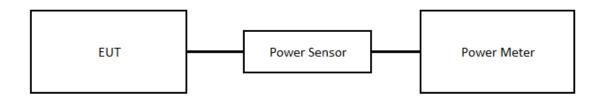
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum peak conducted output power was performed in accordance with method 9 b) of FCC KDB 558074 D01 DTS Meas Guidance.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7 POWER SPECTRAL DENSITY TEST

7.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

Project No.: 2212T004 Page 22 of 51 Report Version: R01

8 ANTENNA CONDUCTED SPURIOUS EMISSION

8.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

Please refer to the APPENDIX G.

Project No.: 2212T004 Page 23 of 51 Report Version: R01



9 LIST OF MEASURING EQUIPMENTS

	AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until	
1	TWO-LINE V-NETWORK	R&S	ENV216	101521	2022/9/28	2023/9/27	
2	Test Cable	EMCI	EMCCFD300-BM -BMR-5000	220331	2022/3/31	2023/3/30	
3	EMI Test Receiver	R&S	ESR 7	101433	2022/11/16	2023/11/15	
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A	

	Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until	
1	Preamplifier	EMCI	EMC330N	980850	2022/9/19	2023/9/18	
2	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/6	
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2022/9/28	2023/9/27	
4	Preamplifier	EMCI	EMC001340	980579	2022/9/30	2023/9/29	
5	Test Cable	EMCI	EMC104-SM-SM- 1000	220319	2023/3/14	2024/3/13	
6	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2023/3/14	2024/3/13	
7	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2023/3/14	2024/3/13	
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23	
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2022/9/19	2023/9/18	
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2022/5/18	2023/5/17	
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2022/5/18	2023/5/17	
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2022/5/20	2023/5/19	
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2022/5/20	2023/5/19	
14	Test Cable	EMCI	EMC101G-KM-K M-3000	220329	2023/3/14	2024/3/13	
15	Test Cable	EMCI	EMC102-KM-KM- 1000	220327	2023/3/14	2024/3/13	
16	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A	

	Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until	
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/26	

			Output Power			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2495A	1128008	2022/6/1	2023/5/31
2	Power Sensor	Anritsu	MA2411B	1126001	2022/6/1	2023/5/31

Project No.: 2212T004 Page 24 of 51 Report Version: R01



	Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until	
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/26	

Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/26

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.

Project No.: 2212T004 Page 25 of 51 Report Version: R01



40 FUT TEST BUOTO
10 EUT TEST PHOTO
Please refer to document Appendix No.: TP-2212T004-FCCP-1 (APPENDIX-TEST PHOTOS).
11 EUT PHOTOS
Please refer to document Appendix No.: EP-2212T004-1 (APPENDIX-EUT PHOTOS).

Project No.: 2212T004 Page 26 of 51 Report Version: R01

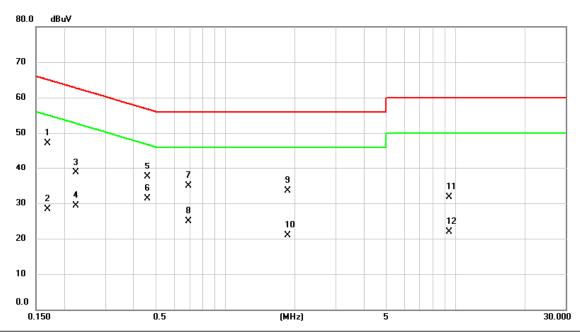


APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

Project No.: 2212T004 Page 27 of 51 Report Version: R01



Test Mode	Normal	Tested Date	2023/2/1
Test Frequency	-	Phase	Line

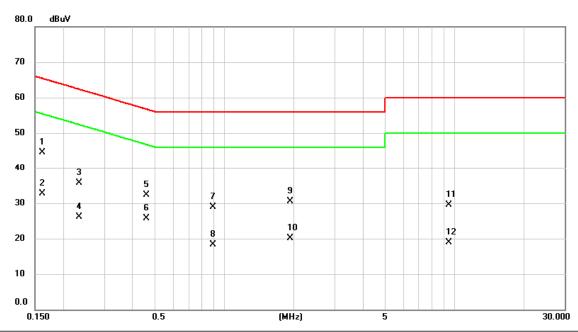


No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1680	37.37	9.64	47.01	65.06	-18.05	QР	
2	0.1680	18.67	9.64	28.31	55.06	-26.75	AVG	
3	0.2242	29.01	9.63	38.64	62.66	-24.02	QР	
4	0.2242	19.75	9.63	29.38	52.66	-23.28	AVG	
5	0.4582	27.91	9.63	37.54	56.73	-19.19	QР	
6 *	0.4582	21.67	9.63	31.30	46.73	-15.43	AVG	
7	0.6900	25.27	9.64	34.91	56.00	-21.09	QР	
8	0.6900	15.24	9.64	24.88	46.00	-21.12	AVG	
9	1.8622	23.84	9.70	33.54	56.00	-22.46	QP	
10	1.8622	11.21	9.70	20.91	46.00	-25.09	AVG	
11	9.3930	21.92	9.86	31.78	60.00	-28.22	QP	
12	9.3930	11.97	9.86	21.83	50.00	-28.17	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode	Normal	Tested Date	2023/2/1
Test Frequency	-	Phase	Neutral

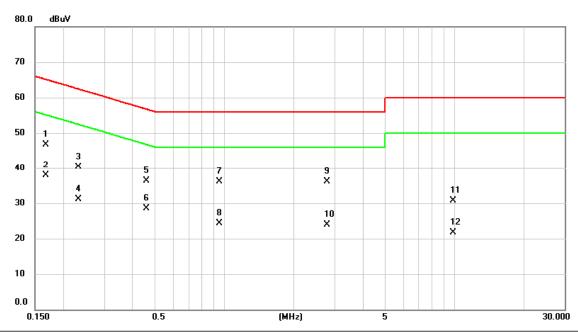


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		0.1613	34.78	9.65	44.43	65.40	-20.97	QР	
2		0.1613	22.97	9.65	32.62	55.40	-22.78	AVG	
3		0.2333	26.13	9.64	35.77	62.33	-26.56	QP	
4		0.2333	16.45	9.64	26.09	52.33	-26.24	AVG	
5		0.4582	22.57	9.64	32.21	56.73	-24.52	QP	
6	*	0.4582	16.12	9.64	25.76	46.73	-20.97	AVG	
7		0.8902	19.23	9.67	28.90	56.00	-27.10	QP	
8		0.8902	8.70	9.67	18.37	46.00	-27.63	AVG	
9		1.9343	20.84	9.71	30.55	56.00	-25.45	QP	
10		1.9343	10.33	9.71	20.04	46.00	-25.96	AVG	
11		9.4290	19.67	9.89	29.56	60.00	-30.44	QP	
12		9.4290	8.94	9.89	18.83	50.00	-31.17	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode	Idle	Tested Date	2023/2/1
Test Frequency	-	Phase	Line

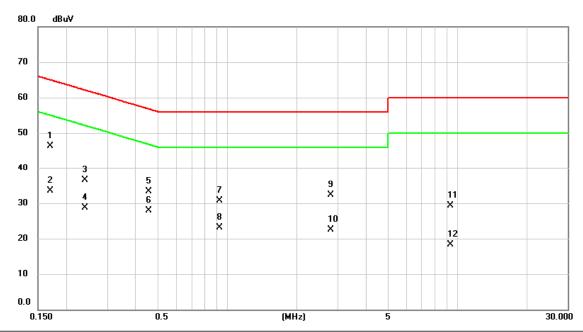


No. MI	k. Freq	Reading . Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1668	37.13	9.64	46.77	65.12	-18.35	QP	
2 *	0.1668	3 28.26	9.64	37.90	55.12	-17.22	AVG	
3	0.2310	30.65	9.63	40.28	62.41	-22.13	QP	
4	0.2310	21.54	9.63	31.17	52.41	-21.24	AVG	
5	0.460	5 26.70	9.63	36.33	56.68	-20.35	QP	
6	0.460	5 18.95	9.63	28.58	46.68	-18.10	AVG	
7	0.9510	26.49	9.67	36.16	56.00	-19.84	QP	
8	0.9510	14.73	9.67	24.40	46.00	-21.60	AVG	
9	2.7938	3 26.36	9.72	36.08	56.00	-19.92	QP	
10	2.7938	3 14.19	9.72	23.91	46.00	-22.09	AVG	
11	9.8903	3 20.86	9.88	30.74	60.00	-29.26	QP	
12	9.8903	3 11.77	9.88	21.65	50.00	-28.35	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode	Idle	Tested Date	2023/2/1
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1703	36.66	9.65	46.31	64.95	-18.64	QР	
2		0.1703	23.81	9.65	33.46	54.95	-21.49	AVG	
3		0.2400	26.92	9.64	36.56	62.10	-25.54	QP	
4		0.2400	19.07	9.64	28.71	52.10	-23.39	AVG	
5		0.4560	23.70	9.64	33.34	56.77	-23.43	QP	
6		0.4560	18.21	9.64	27.85	46.77	-18.92	AVG	
7		0.9262	21.08	9.68	30.76	56.00	-25.24	QP	
8		0.9262	13.40	9.68	23.08	46.00	-22.92	AVG	
9		2.8028	22.59	9.73	32.32	56.00	-23.68	QP	
10		2.8028	12.77	9.73	22.50	46.00	-23.50	AVG	
11		9.3390	19.45	9.89	29.34	60.00	-30.66	QP	
12		9.3390	8.50	9.89	18.39	50.00	-31.61	AVG	

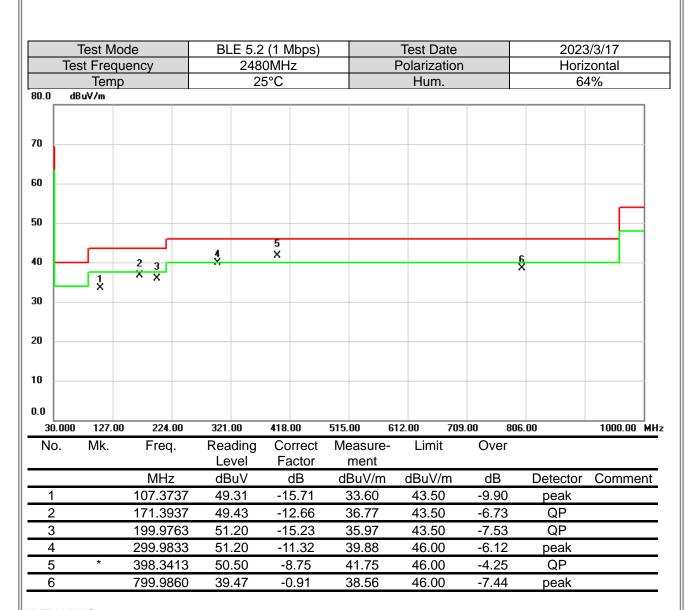
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX B	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

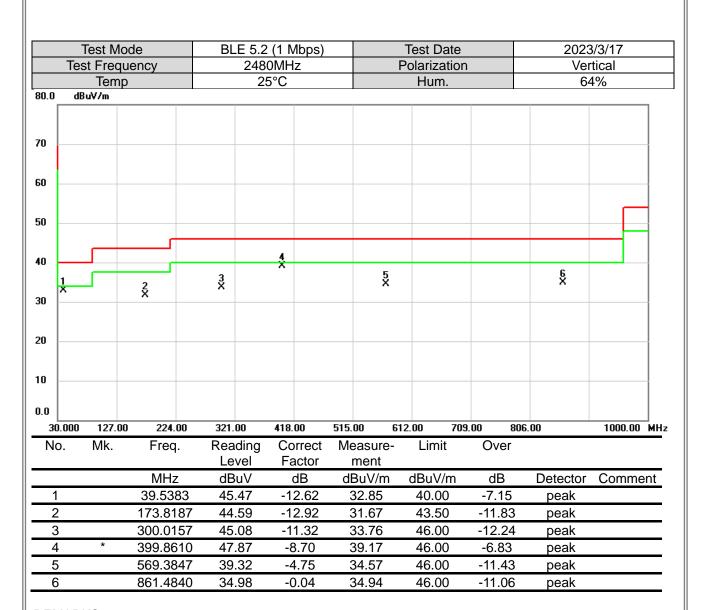
Project No.: 2212T004 Page 32 of 51 Report Version: R01





- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

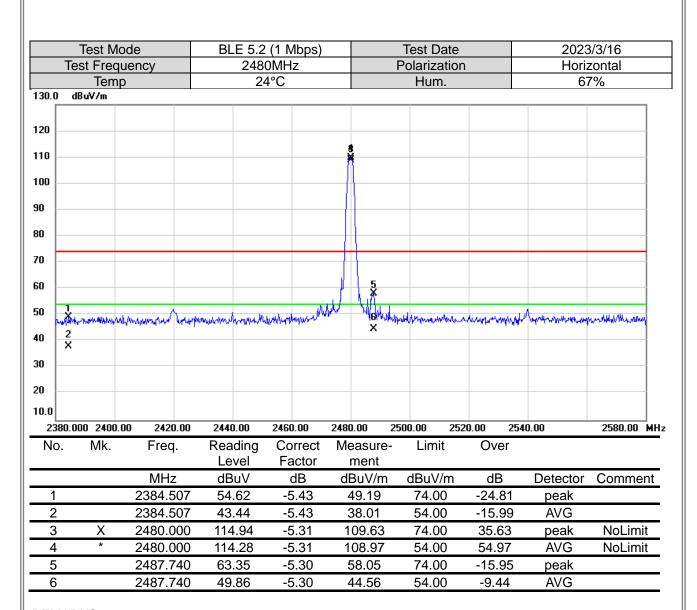
Project No.: 2212T004 Page 35 of 51 Report Version: R01



	est Mod				2 (1 Mbps)		Test Date			3/3/16
Tes	t Freque	ency			2MHz		Polarizatio	n		zontal
30.0 dB	Temp uV/m			2	24°C		Hum.		67	7%
. 30. U GB	UY/M									
20										
10						<u>\$</u>				
00										
30										
30						*				
70										
50						-				
50		h ()			1 ************************************	Jane Jane			A	6
and of this	^{ያገ} ላቀች ለኢትሌ ሲያስሆን የኢ	With the real words ()					Marine III had a collection to	and the constitution of		4.1
10 		Valle hours, as the	-where	and the second of the second	X M-P-Marie Carlotte and Security	A AMAN	hoperations but prey trapped by	الدرازان والمنصورات مالكوانيان	" \nfrisp\s.Abfbladde\del	· /
Н		Valle lands at a	-warwo.	arred and the following	X. Waller Christophy X	779/04	Marine Marine Marine Araba	alifa (galanda)	" \n\n\n\n\n\n\delahalde \add	/#//*////////////////////////////
40 30 20		Ash hours as a		and the first of the section of	X	, 1/h/1	Marin Amerika di Selata Andre An	olgicy Manadage and April (April)	"Takingthi, Alefhereight Wilde	· /
80		At k hours, as a		organistic and the second	×	100	Marianton La perior display	olyce of the end grow shift of the end	Takuru Afrika ang karang k	· /
0.0	0 2322.00			2362.00	2382.00				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· /
0.0							2422.00 24			×
0.0	0 2322.00	2342.		2362.00 Reading	2382.00 Correct	2402.00 2 Measure-	2422.00 24	142.00 248		×
0 0 0.0 2302.000	0 2322.00	2342. Freq.	00	2362.00 Reading Level	2382.00 Correct Factor	2402.00 2 Measure- ment	2422.00 24 Limit	142.00 246 Over	52.00	2502.00 MI
0 0 0.0 2302.000 No.	0 2322.00	2342. Freq.	00	2362.00 Reading Level dBuV	2382.00 Correct Factor dB	2402.00 2 Measure- ment dBuV/m	2422.00 24 Limit dBuV/m	0ver dB	52.00 Detector	2502.00 MI
0 0 0.0 2302.000 No.	0 2322.00	2342. Freq. MHz 2389.58	00 37 37	2362.00 Reading Level dBuV 57.05	2382.00 Correct Factor dB -5.42	2402.00 2 Measure- ment dBuV/m 51.63	2422.00 24 Limit dBuV/m 74.00	0ver dB -22.37	Detector peak	2502.00 MI
0 0 0.0 2302.000 No.	0 2322.00 Mk.	2342. Freq. MHz 2389.58 2389.58	37 37 30	2362.00 Reading Level dBuV 57.05 49.21	2382.00 Correct Factor dB -5.42 -5.42	2402.00 2 Measure- ment dBuV/m 51.63 43.79	2422.00 24 Limit dBuV/m 74.00 54.00	Over dB -22.37 -10.21	Detector peak AVG	2502.00 MI
0 0 0.0 2302.000 No.	0 2322.00 Mk.	2342. Freq. MHz 2389.58 2389.58 2400.00	37 37 00	2362.00 Reading Level dBuV 57.05 49.21 85.71	2382.00 Correct Factor dB -5.42 -5.42 -5.41	2402.00 2 Measure- ment dBuV/m 51.63 43.79 80.30	2422.00 24 Limit dBuV/m 74.00 54.00 74.00	Over dB -22.37 -10.21 6.30	Detector peak AVG peak	2502.00 MI
0 0 0.0 2302.000 No.	0 2322.00 Mk.	2342. Freq. MHz 2389.58 2389.58 2400.00 2402.00	37 37 00 00	2362.00 Reading Level dBuV 57.05 49.21 85.71 114.50	2382.00 Correct Factor dB -5.42 -5.42 -5.41 -5.40	2402.00 2 Measure- ment dBuV/m 51.63 43.79 80.30 109.10	2422.00 24 Limit dBuV/m 74.00 54.00 74.00 74.00	0ver dB -22.37 -10.21 6.30 35.10	Detector peak AVG peak peak	2502.00 MI Comment NoLimit NoLimit

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.





- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



	Test M			BLI		(1 Mbp	s)			Test D				3/3/17
Te	est Freq					2MHz				Polariz		1		rtical
00.0	Tem	p			2	5°C				Hur	n.		6	4%
30.0	dBuV/m													
20														
10														
"														
00														
00														
30														
0														
io —														
io 🗀		1												
10		1 X 2 X												
		×												
80														
20														
0.0														
	000 3550.			8650.		11200.00		13750.0		6300.00			21400.00	26500.00 MH
No.	Mk.	Freq	-	Read		Corre Facto		Meas		Lim	iit	Over		
		MHz	7	dBı		dB		dBu'		dBu√	//m	dB	Detector	Comment
1		4804.0	000	44.4	48	0.75		45.	23	74.0	00	-28.77	' peak	
2	*	4804.0	000	37.3	35	0.75		38.	10	54.0	00	-15.90) AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



_		st Mo			BL		(1 M				Test D					3/3/17	
			uency				2MHz	<u>. </u>			 <u>Polariza</u>				Horizontal		
130.0	dBuV	Temp)			2	5°C				Hum	۱.			64	4%	
30.0	dBuv	/m															1
120 _																	
10																	
100																	
90 <u> </u>																	
30																	
o																	
io																	
io			1 X														
0			2 X														
10			•														
20																	
0.0																	
		3550.			8650		11200			0.00	300.00		50.00		00.00	26500.00	МН
No.	ľ	Иk.	Fred	1.	Rea Le			rect ctor		easur ment	Limi	t	Ove	er			
			MH:	Z	dB	uV		В		3uV/r	dBuV	/m	dE	3	Detector	Comme	nt
1			4804.0		47.			75		17.82	74.0		-26.	18	peak		
2		*	4804.0	000	37.	.01	0.	75	3	37.76	54.0	0	-16.	24	AVG		

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo			2 (1 Mbps) 0MHz		Test Date			3/3/17	
	est Frequ Temp			<u>омн2</u> 5°С		Polarization Hum.	1	Vertical 64%		
130.0	dBuV/m)		3 C		ПuIII.		04	+ 70	
120 📖										
110										
100										
90 <u> </u>										
30										
'O										
SO										
50										
		X								
ŧ0		2 X								
30										
20										
10.0										
	.000 3550.0	00 6100.00	8650.00	11200.00	13750.00 1	6300.00 188	350.00 214	100.00	26500.00 MH	
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over			
		·	Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	-	4880.000	44.58	1.01	45.59	74.00	-28.41	peak		
2	*	4880.000	35.89	1.01	36.90	54.00	-17.10	AVG		

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



To	Test Mo		Bl		(1 Mbps) 0MHz				est Da olariza				3/3/17 zontal
16	est Frequ Temp				<u>омп2</u> 5°С			PC	Hum				2011(a) 4%
130.0 d	IBuV/m	,			3 0				Hain	•			170
120													
110													
100 -													
90													
30													
'o													
50													
io 🗀		X											
ю		2 X											
30													
20													
10.0													
1000.0 No.	000 3550.0 Mk.	00 6100.0 Freq.		ding	11200.00 Correct	13750 Me	asure		00.00 Limit	1885	Over	21400.00	26500.00 MI
INO.	IVIIV.	r req.		vel	Factor		asure nent				Over		
		MHz	dE	ωV	dB	dB	uV/m	(dBuV/	m	dB	Detector	Comment
1		4880.00	0 48	.93	1.01	4	9.94		74.00)	-24.06		
2	*	4880.00	0 40	.19	1.01	4	1.20		54.00)	-12.80) AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo			2 (1 Mbps)		Test Date			3/3/17
Te	est Frequ			0MHz		Polarization	1		tical
	Temp)	2	5°C		Hum.		64	1%
130.0	dBuV/m								
120									
110									
100									
90									
80									
70									
60									
50		; 2 X							
40		X							
30									
20									
10.0									
	000 3550.0			11200.00				00.00	26500.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	48.52	1.28	49.80	74.00	-24.20	peak	
2	*	4960.000	40.56	1.28	41.84	54.00	-12.16	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo			BL		(1 M					est Da					3/3/17	
Te	est Frequ					0MHz	· -			Po	olariza				Horizontal		
100.0	Temp)			2	5°C					Hum.				64%		
130.0	dBuV/m																_
120																	4
10																	4
100																	4
00																	-
30																	4
'o 🗀																	+
SO		_															-
50		1 X 2															=
ю		×															-
30																	-
20																	-
10.0																	
	000 3550.0	00 6100	.00	8650		11200			50.00		00.00	1885		21400	0.00	26500.0	10 MH
No.	Mk.	Freq		Read Lev		Cor Fac	rect ctor		easure ment	-	Limit		Ove	r			
		MHz		dBı			В		3uV/m		dBuV/ı	m	dB		Detector	Comm	ent
1		4960.0	00	50.	87	1.:	28		52.15		74.00		-21.8		peak		
2	*	4960.0	00	43.	53	1	28	4	14.81		54.00)	-9.19	9	AVG		

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



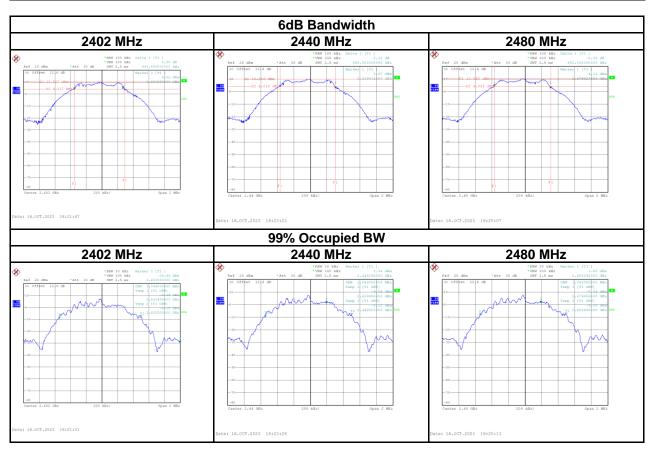
3 T L		Report No.: BTL-FCCP-2-2212T004
		Report No.: DTE 1 GOT 2 22121001
	APPENDIX D	BANDWIDTH

Project No.: 2212T004 Page 44 of 51 Report Version: R01



Test Mode:	1Mbps
1000 1110 0001	P C

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.64	1.04	500	Pass
2440	0.67	1.04	500	Pass
2480	0.68	1.04	500	Pass







	Report No.: BTL-FCCP-2-2212T004
APPENDIX E	OUTPUT POWER

Project No.: 2212T004 Page 46 of 51 Report Version: R01



Report No.: BTL-FCCP-2-2212T004

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.65	0.0092	30.00	1.0000	Pass
2440	9.70	0.0093	30.00	1.0000	Pass
2480	9.95	0.0099	30.00	1.0000	Pass



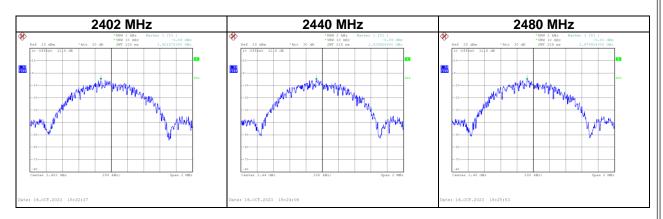
APPENDIX F POWER SPECTRAL DENSITY TEST

Project No.: 2212T004 Page 48 of 51 Report Version: R01



Test Mode : 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-5.58	8	Pass
2440	-5.89	8	Pass
2480	-5.81	8	Pass





APPENDIX G	ANTENNA CONDUCTED SPURIOUS EMISSION		

Project No.: 2212T004 Page 50 of 51 Report Version: R01

Report No.: BTL-FCCP-2-2212T004

