



FCC Radio Test Report

FCC ID: 2ARNB-DTSWLG3

This report concerns: Original Grant

Project No.	:	2503C220
Equipment	:	Data Transfer Stick
Brand Name	:	Hoymiles
Test Model	:	DTS-WL-G3
Series Model	:	N/A
Applicant	:	Hoymiles Power Electronics Inc.
Address	:	No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China
Manufacturer	:	Hoymiles Power Electronics Inc.
Address	:	No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China
Factory	:	Hoymiles Power Electronics Inc.
Address	:	No.149 Kangzhong Road, Hangzhou 310015, Zhejiang Province, P.R.
		China
Date of Receipt	:	Mar. 19, 2025
Date of Test	:	Mar. 20, 2025 ~ Apr. 17, 2025
Issued Date	:	Apr. 24, 2025
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG20250319240 for AC power line
		conducted emissions and radiated emissions, DG20250319241 for
		others.
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart C

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

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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 assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 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.



Table of Contents	Page
REVISION HISTORY	6
1 . APPLICABLE STANDARDS	7
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
2.3 TEST ENVIRONMENT CONDITIONS	9
3 . GENERAL INFORMATION	10
3.1 GENERAL DESCRIPTION OF EUT	10
3.2 DESCRIPTION OF TEST MODES	11
3.3 PARAMETERS OF TEST SOFTWARE	12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
3.5 SUPPORT UNITS	13
3.6 CUSTOMER INFORMATION DESCRIPTION	13
4 . AC POWER LINE CONDUCTED EMISSIONS	14
4.1 LIMIT	14
4.2 TEST PROCEDURE	14
4.3 DEVIATION FROM TEST STANDARD	14
4.4 TEST SETUP	15
4.5 EUT OPERATING CONDITIONS	15
4.6 TEST RESULTS	15
5. RADIATED EMISSIONS	16
5.1 LIMIT	16
5.2 TEST PROCEDURE	17
5.3 DEVIATION FROM TEST STANDARD	18
5.4 TEST SETUP	18
5.5 EUT OPERATING CONDITIONS	20
5.6 TEST RESULT - 9 KHZ TO 30 MHZ	20
5.7 TEST RESULT - 30 MHZ TO 1000 MHZ	20
5.8 TEST RESULT - ABOVE 1000 MHZ	20
6 . BANDWIDTH	21
6.1 LIMIT	21
6.2 TEST PROCEDURE	21



Table of Contents	Page
6.3 DEVIATION FROM STANDARD	21
6.4 TEST SETUP	21
6.5 EUT OPERATION CONDITIONS	21
6.6 TEST RESULTS	21
7 . MAXIMUM OUTPUT POWER	22
7.1 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
8 . CONDUCTED SPURIOUS EMISSION	23
8.1 LIMIT	23
8.2 TEST PROCEDURE	23
8.3 DEVIATION FROM STANDARD	23
8.4 TEST SETUP	23
8.5 EUT OPERATION CONDITIONS	23
8.6 TEST RESULTS	23
9 . POWER SPECTRAL DENSITY	24
9.1 LIMIT	24
9.2 TEST PROCEDURE	24
9.3 DEVIATION FROM STANDARD	24
9.4 TEST SETUP	24
9.5 EUT OPERATION CONDITIONS	24
9.6 TEST RESULTS	24
10 . MEASUREMENT INSTRUMENTS LIST	25
11 . EUT TEST PHOTO	27
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	33
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	36
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	41
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	44
APPENDIX E - BANDWIDTH	71



Table of Contents	Page
APPENDIX F - MAXIMUM OUTPUT POWER	76
APPENDIX G - CONDUCTED SPURIOUS EMISSION	79
APPENDIX H - POWER SPECTRAL DENSITY	84



Report No. Version Issued Date BTL-FCCP-1-2503C220 R00 Original Report. Apr. 24, 2025	
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1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of A2LA: KDB 558074 D01 15.247 Meas Guidance v05r02

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

	FCC CFR Title 47, Part 15, Subpart C			
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	
15.247(d)	Conducted Spurious Emission	APPENDIX G	PASS	
15.247(e)	Power Spectral Density	APPENDIX H	PASS	
15.203	Antenna Requirement		PASS	Note(2)

Note:

(1) "N/A" denotes test is not applicable to this device.

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

For Radiated Emissions 1GHz - 18GHz Items: Room 102 & Room 702, Building 3, No.9, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

For Other Items: 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China. BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

BTE'S Designation Number for FCC. CN137

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% confidence level (based on a coverage factor (k=2)) The BTL measurement uncertainty as below table:

A. AC power line conducted emissions Measurement:

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	<i>U</i> ,(dB)
	CISPR	30MHz ~ 200MHz	V	4.40
DG-CB03 (3m)		30MHz ~ 200MHz	Н	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	Н	3.98

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB18		1GHz ~ 6GHz	4.48
(3m)	CISPR	6GHz ~ 18GHz	3.88

Test Site	Method	Measurement Frequency Range	<i>U</i> ,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36



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Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	1.9 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %

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

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	23°C	55%	AC 120V/60Hz	Hayden Chen	Mar. 28, 2025
Radiated Emissions -9 kHz to 30 MHz	20°C	48%	DC 5V	Hayden Chen	Mar. 28, 2025
Radiated Emissions -30 MHz to 1000 MHz	23°C	42%	DC 5V	Chen Mo	Mar. 31, 2025
Radiated Emissions	23-24°C	47-48%	DC 5V	Berton Luo	Apr. 06, 2025- Apr. 09, 2025
-Above 1000 MHz	23°C	42%	DC 5V	Calvin Wen	Apr. 01, 2025
Bandwidth	23-24°C	47-49%	DC 5V	Jensen Zhou	Apr. 02, 2025- Apr. 11, 2025
Maximum Output Power	23-24°C	47-49%	DC 5V	Jensen Zhou	Apr. 02, 2025- Apr. 11, 2025
Conducted Spurious Emission	23-24°C	47-49%	DC 5V	Jensen Zhou	Apr. 02, 2025- Apr. 11, 2025
Power Spectral Density	23-24°C	47-49%	DC 5V	Jensen Zhou	Apr. 02, 2025- Apr. 11, 2025



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Data Transfer Stick	
Brand Name	Hoymiles	
Test Model	DTS-WL-G3	
Series Model	N/A	
Model Difference(s)	N/A	
Software Version	V02.00.13	
Hardware Version	H11.02.01	
Power Source	Supplied from USB port.	
Power Rating	DC 5V	
Operation Fre uency	2402 MHz ~ 2480 MHz	
Modulation Type	GFSK	
Bit Rate of Transmitter	1Mbps, 2Mbps, 500kbps(S=2), 125kbps(S=8)	
Max. Output Power	1Mbps: 18.64 dBm (0.0731 W)	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the 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

3. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	SLEing®	SLEingA248970045	FPC	MHF	-1.27



3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode._____

Pretest Mode	Description			
Mode 1	TX Mode_1Mbps Channel 00/19/39			
Mode 2	TX Mode_2Mbps Channel 00/19/39			
Mode 3	TX Mode_500kbps(S=2) Channel 00/19/39			
Mode 4	TX Mode_125kbps(S=8) Channel 00/19/39			
Mode 5	TX Mode_1Mbps Channel 39			

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test			
Final Test Mode Description			
Mode 3 TX Mode_1Mbps Channel 39			

Radiated emissions test - Below 1GHz & Above 18GHz			
Final Test Mode Description			
Mode 3 TX Mode_1Mbps Channel 39			

Radiated emissions test - 1GHz - 18GHz			
Final Test Mode Description			
Mode 1 TX Mode_1Mbps Channel 00/19/39			
Mode 2	Mode 2 TX Mode_2Mbps Channel 00/19/39		
Mode 3	Mode 3 TX Mode_500kbps(S=2) Channel 00/19/39		
Mode 4	TX Mode_125kbps(S=8) Channel 00/19/39		

Conducted test			
Final Test Mode Description			
Mode 1	Mode 1 TX Mode_1Mbps Channel 00/19/39		
Mode 2 TX Mode_2Mbps Channel 00/19/39			
Mode 3	TX Mode_500kbps(S=2) Channel 00/19/39		
Mode 4	Mode 4 TX Mode_125kbps(S=8) Channel 00/19/39		

Note:

- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 1Mbps Channel 39 is found to be the worst case and recorded.
- (3) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (4) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.



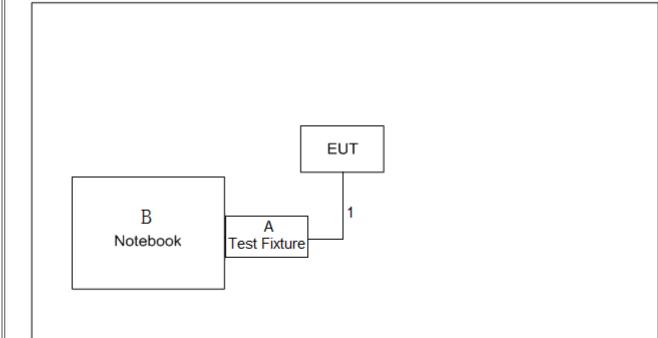
3.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	ESP_RF_Test_EN_0		
Frequency (MHz)	2402	2440	2480
1Mbps	15	15	15
2Mbps	15	15	15
500kbps(S=2)	15	15	15
125kbps(S=8)	15	15	15



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



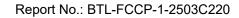
3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Test Fixture	N/A	N/A	N/A
В	Notebook	HUAWEI	KLVG-16	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	Data Cable	NO	NO	0.2m

3.6 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. Part of the cable losses (0.5dB) are provided by the manufacturer, while the other parts of the cable losses are provided by the testing laboratory.





4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (d	BμV)
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 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.

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling 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 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

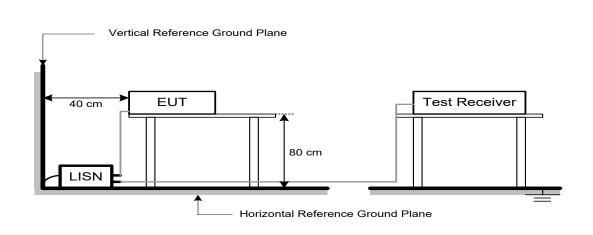
0	
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.3 DEVIATION FROM TEST STANDARD

No deviation.



4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of [Note]. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.



5. RADIATED EMISSIONS

5.1 LIMIT

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

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dBµV/m)		Harmonic at	1m (dBµV/m)
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

Note:

(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.

1

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

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

20log (d_{limit}/d_{measure})=20log (3/1)=9.5 dB.

FS_{limit}: Harmonic at 3m Peak and Average limit.

FS_{max}: Harmonic at 1m Peak and Average Maximum value.

d_{limit}: Harmonic at 3m test distance.

d_{measure}: Harmonic Actual test distance.



5.2 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 1 GHz)
- b. The measuring distance of 3 m or 1 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 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1 MHz / 3 MHz for PK value
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value

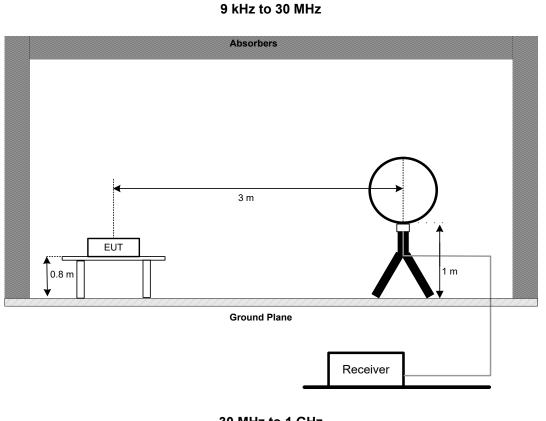
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector



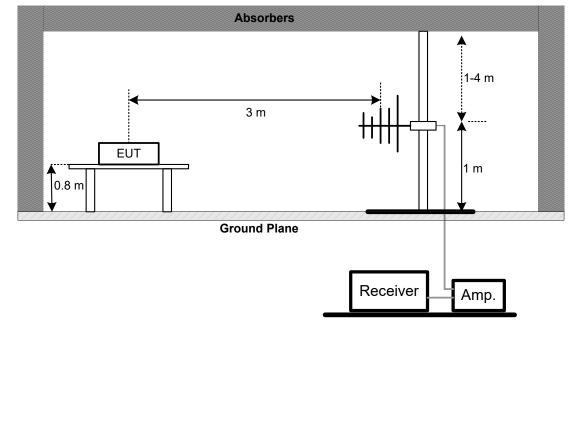
5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP

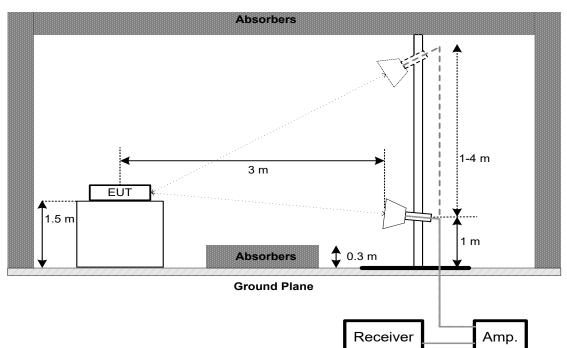


30 MHz to 1 GHz

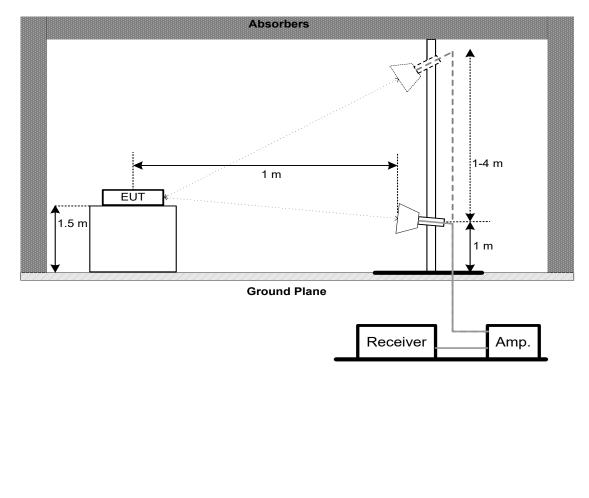




Above 1 GHz Band edge & Harmonic(1 GHz to 18 GHz)



Harmonic(18 GHz to 26.5 GHz)





5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

5.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

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



6. BANDWIDTH

6.1 LIMIT

Section	Test Item	Limit
	6 dB Bandwidth	>= 500 kHz
FCC 15.247(a)(2)	99% Emission Bandwidth	-

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting	
Span	> Measurement Bandwidth	
RBW	100 kHz	
VBW	300 kHz	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span	Between 1.5 times and 5.0 times the OBW
RBW	30 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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. MAXIMUM OUTPUT POWER

7.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 watt or 30.00 dBm

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. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	≥ 3×RBW
RBW	3 MHz
VBW	3 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.



8. CONDUCTED SPURIOUS EMISSION

8.1 LIMIT

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

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. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX G.



9. POWER SPECTRAL DENSITY

9.1 LIMIT

Section	Test Item	Limit
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

9.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

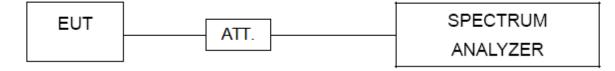
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting			
Span	2 MHz (1 Mbps, 500kbps(S=2), 125kbps(S=8)) / 4 MHz (2 Mbps)			
RBW	3 kHz			
VBW	10 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.



10. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	TWO-LINE V-NETWORK	R&S	S ENV216 102974		Dec. 06, 2025					
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 06, 2025					
3	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 11, 2025					
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A					
5	643 Shield Room	ETS	6*4*3	N/A	N/A					

	Radiated Emissions - 9 kHz to 30 MHz									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 01, 2026					
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 06, 2025					
3	Cable	N/A	RW4950-3.8A-NMS M-1.5	N/A	Nov. 12, 2025					
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Nov. 12, 2025					
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A					
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025					

	Radiated Emissions - 30 MHz to 1 GHz Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until									
Item	Kind of Equipment	Equipment Manufacturer Type No. Serial No.								
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01462	Dec. 14, 2025					
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 14, 2025					
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025					
4	Cable	RegalWay	LMR400-NMNM-12 .5m	N/A	Jun. 06, 2025					
5	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jun. 06, 2025					
6	Cable	Cable RegalWay LMR400-NMNM-0. 5m		N/A	Jun. 06, 2025					
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026					
8	Positioning Controller	MF	MF-7802	N/A	N/A					
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A					
10	966 Chamber room	СМ	9*6*6	N/A	May 16, 2025					



	Radiated Emissions - 1 GHz - 18 GHz										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
1	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A						
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A						
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63430227	Oct. 29, 2025						
4	Cable	RegalWay	RWLP50-4.0A-SMS M-1.3M	N/A	Jan. 07, 2026						
5	Cable	RegalWay	RWLP50-2.6A-3.5 M2.92MRA-3M	N/A	Jan. 07, 2026						
6	Cable	RegalWay	RWLP50-4.0A-SMS M-9M	N/A	Jan. 07, 2026						
7	966 Chamber room	ETS	RFD-100 (SVSWR)	Q2179	Jan. 07, 2026						
8	Double Ridged Horn Antenna	EMC INSTRUMENT	DRH18-E	210509A18ES	Aug. 28, 2025						
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	May 31, 2025						
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A						
11	Filter	STI	STI15-9912	N/A	Oct. 29, 2025						

	Radiated Emissions - Above 18 GHz									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025					
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025					
3	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025					
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025					
5	Broad-Band Horn Antenna	Schwarzbeck BBHA9170(3m)		9170-319	Jun. 16, 2025					
6	966 Chamber room	CM	9*6*6	N/A	Dec 28, 2025					
7	Positioning Controller	MF	MF-7802	N/A	N/A					
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A					

	Bandwidth &								
	Maximum Output Power &								
	Power	Spectral Density &							
	Conducted Spurious Emission								
t	Manufacturer	Type No.	Serial N						

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	May 31, 2025
2	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A

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



11. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos



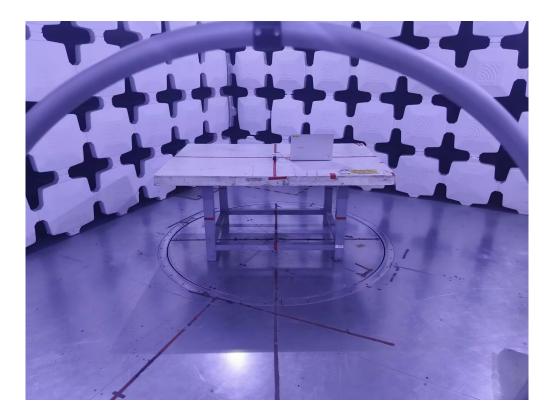




Radiated Emissions Test Photos

9 kHz to 30 MHz



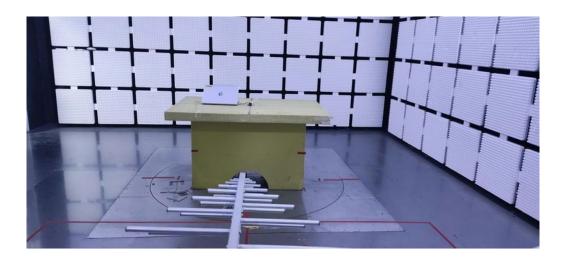




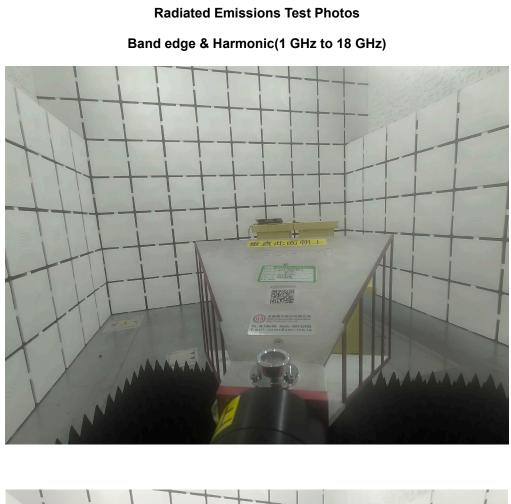
Radiated Emissions Test Photos

30 MHz to 1000 MHz









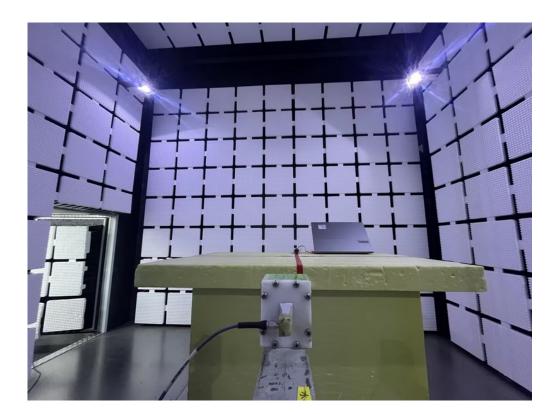




Radiated Emissions Test Photos

Harmonic(18 GHz to 26.5 GHz)









Conducted Test Photos

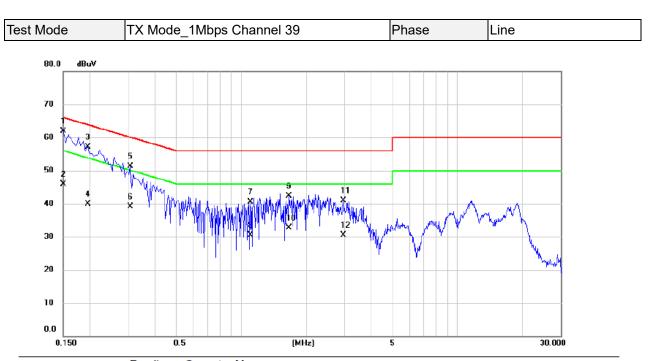






APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS



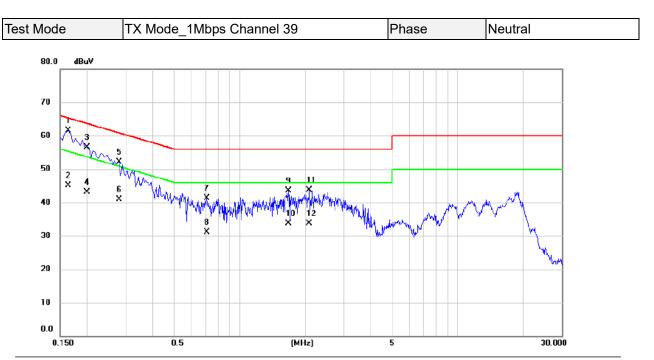


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	52.09	9.89	61.98	66.00	-4.02	QP	
2		0.1500	36.10	9.89	45.99	56.00	-10.01	AVG	
3		0.1955	47.21	9.90	57.11	63.80	-6.69	QP	
4		0.1955	30.10	9.90	40.00	53.80	-13.80	AVG	
5		0.3075	41.33	9.92	51.25	60.04	-8.79	QP	
6		0.3075	29.20	9.92	39.12	50.04	-10.92	AVG	
7		1.1040	30.34	10.07	40.41	56.00	-15.59	QP	
8		1.1040	20.40	10.07	30.47	46.00	-15.53	AVG	
9		1.6665	32.18	10.15	42.33	56.00	-13.67	QP	
10		1.6665	22.60	10.15	32.75	46.00	-13.25	AVG	
11		2.9670	30.60	10.35	40.95	56.00	-15.05	QP	
12		2.9670	20.10	10.35	30.45	46.00	-15.55	AVG	

REMARKS:

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





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1635	51.57	9.97	61.54	65.28	-3.74	QP	
2		0.1635	35.20	9.97	45.17	55.28	-10.11	AVG	
3		0.1997	46.57	9.97	56.54	63.62	-7.08	QP	
4		0.1997	33.20	9.97	43.17	53.62	-10.45	AVG	
5		0.2805	42.22	9.98	52.20	60.80	-8.60	QP	
6		0.2805	30.90	9.98	40.88	50.80	-9.92	AVG	
7		0.7080	31.24	10.05	41.29	56.00	-14.71	QP	
8		0.7080	21.10	10.05	31.15	46.00	-14.85	AVG	
9		1.6710	33.26	10.20	43.46	56.00	-12.54	QP	
10		1.6710	23.50	10.20	33.70	46.00	-12.30	AVG	
11		2.0895	33.42	10.26	43.68	56.00	-12.32	QP	
12		2.0895	23.50	10.26	33.76	46.00	-12.24	AVG	

REMARKS:

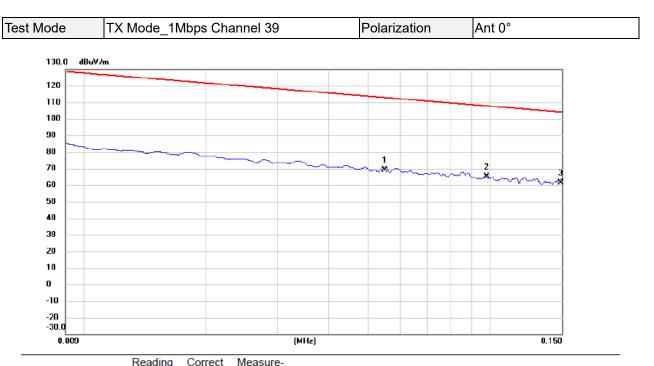
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ



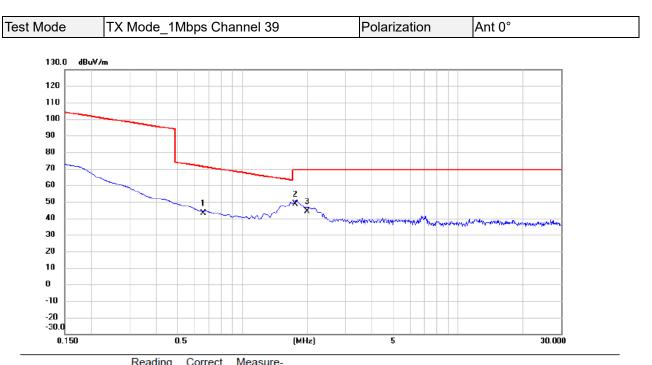


No. Mk.	Freq.	Level		ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.055	47.58	21.26	68.84	112.80	-43.96	AVG	
2	0.098	43.63	21.34	64.97	107.78	-42.81	QP	
3 *	0.149	40.15	21.27	61.42	104.12	-42.70	QP	

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.





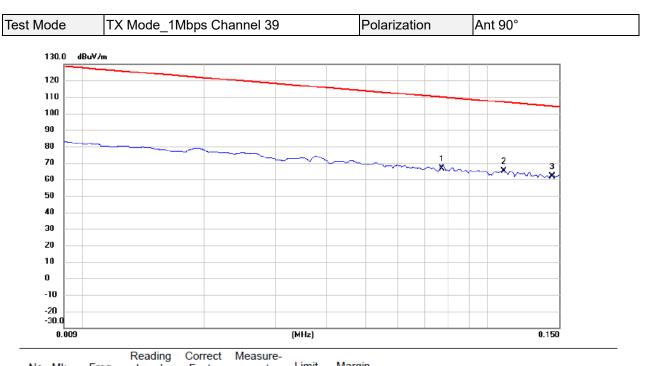


No. Mk.	Freq.			ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.657	21.85	21.11	42.96	71.25	-28.29	QP	
2 *	1.762	27.45	21.13	48.58	69.54	-20.96	QP	
3	2.001	23.16	21.11	44.27	69.54	-25.27	QP	

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



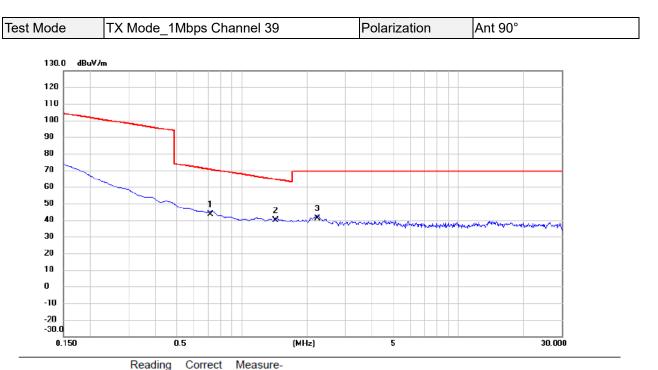




No. Mk.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.077	45.25	21.33	66.58	109.86	-43.28	AVG	
2 *	0.110	43.67	21.33	65.00	106.82	-41.82	QP	
3	0.144	40.38	21.27	61.65	104.43	-42.78	QP	

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





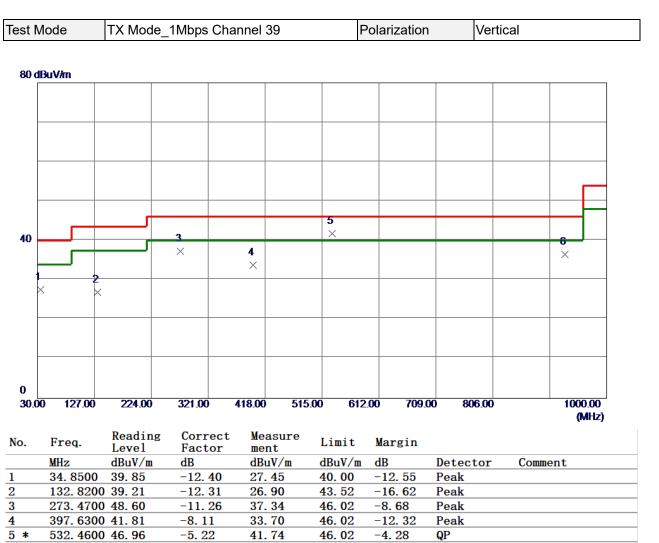
No. Mk.	Freq.	Level		ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.717	22.16	21.13	43.29	70.49	-27.20	QP	
2 *	1.434	18.68	21.16	39.84	64.48	-24.64	QP	
3	2.240	19.74	21.11	40.85	69.54	-28.69	QP	

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



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ





46.02

-**9**. 55

QP

REMARKS:

6

929. 1900 35. 79

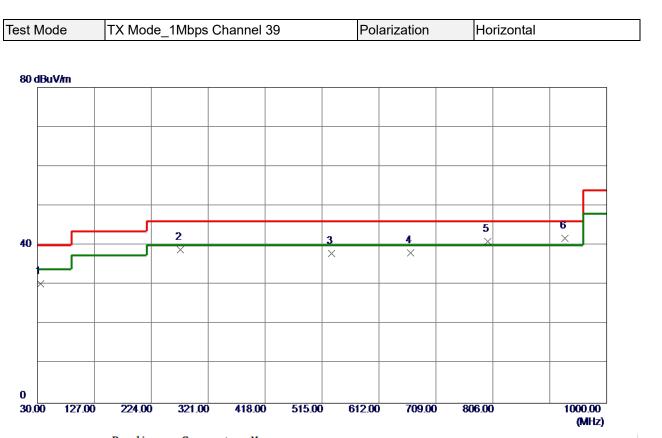
(1) Measurement Value = Reading Level + Correct Factor.

0.68

36.47

(2) Margin Level = Measurement Value - Limit Value.





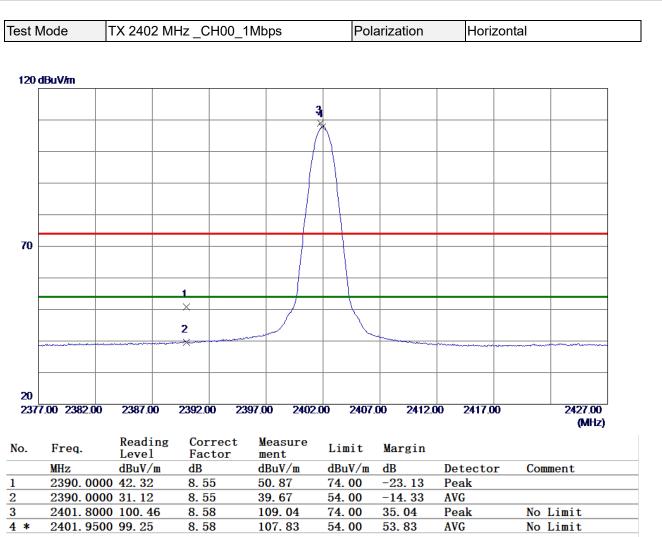
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	34.8500	42.70	-12. 40	30. 30	40.00	-9.70	Peak	
2	273. 4700	50.14	-11.26	38.88	46.0 2	-7.14	Peak	
3	531. 4900	43. 19	-5.24	37.95	46.0 2	-8.07	Peak	
4	666. 3200	40.63	-2.56	38. 0 7	46.0 2	-7.95	Peak	
5	797.2700	41.81	- 0. 86	40.95	46.0 2	-5.07	Peak	
6 *	929. 1900	41.07	0.68	41.75	46.0 2	-4.27	Peak	

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



APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ





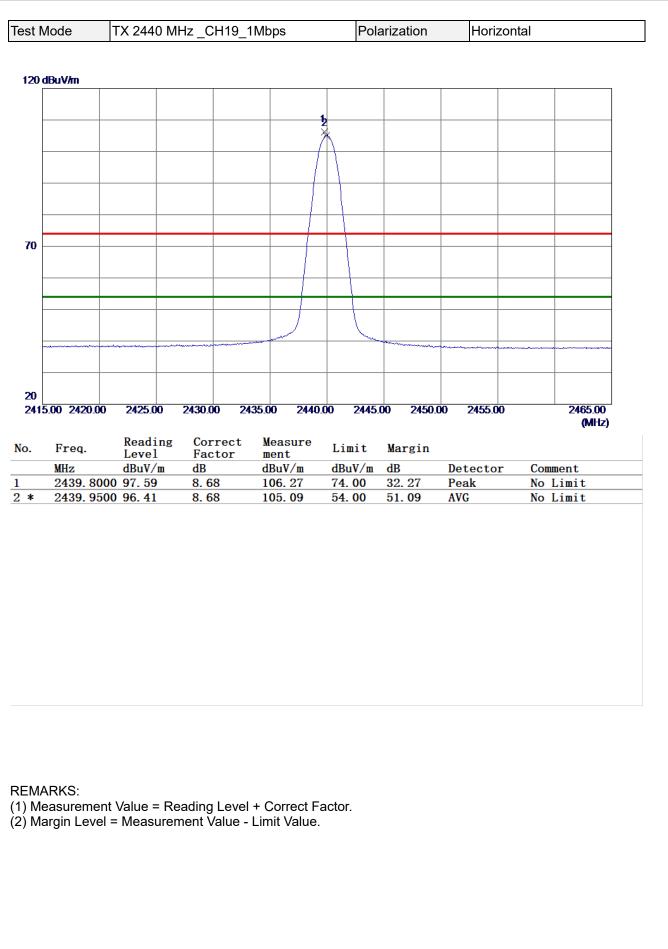
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test N	lode	TX 2402 M	Hz_CH00_	1Mhns	<u> </u>	Pol	arization	Horiz	zontal	
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										(MHz)
No.	Freq.	Reading	Correct		sure	Limit	Margin			
	MHz	Level dBuV/m	Factor dB	men dBu		dBuV/m	dB	Detector	- Com	ment
1		00 50.06	3. 97	ави 54.		74.00	-19. 97	Peak		
		00 45.94	3.97	49.		54.00	-4. 09	AVG		
2 * 3		00 25.43	8.49	33.		54.00	-20.08	AVG		
4	7209.31	00 38.62	8. 49	47.	11	74.00	-26.89	Peak		

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.

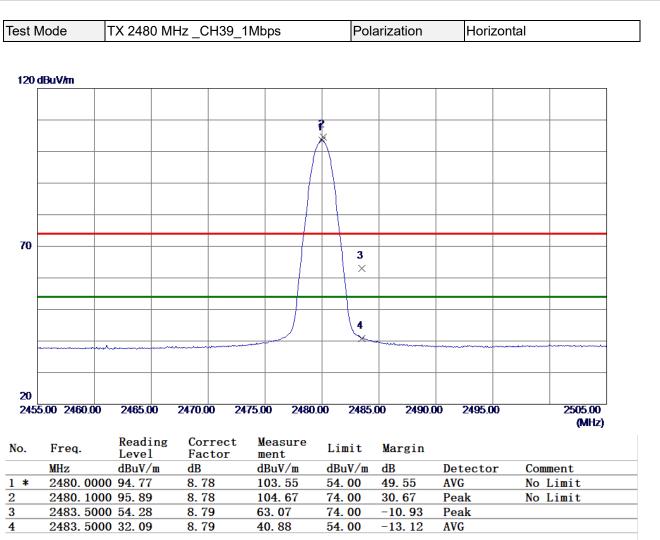






est N	/lode	TX 2440	MHz_C	CH19_	1Mbps		Pola	arizat	tion		Horiz	onta		
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1000	210030	1100.00	01003			5000.00	/ 11204		12.500.		110003	~		(MHz)
	-	Readir	0											
) .	Freq.	Level	ig Co: Fa	rrect ctor	Measu ment	re	Limit	Mar	gin					
•	MHz	Level dBuV/m	Fa 1 dB	ctor	ment dBuV/	m (dBuV/m	dB			tector		Com	nent
	MHz 4879.83	Level	Fa	ctor 10	ment	m			. 77		ak	•	Com	nent
*	MHz 4879.83	Level dBuV/m 00 50.13	Fa 1 dB 4.1	ctor 10	ment dBuV/1 54.23	m	dBuV/m 74. 00	dB -19	. 77	Pe	ak		Com	nent



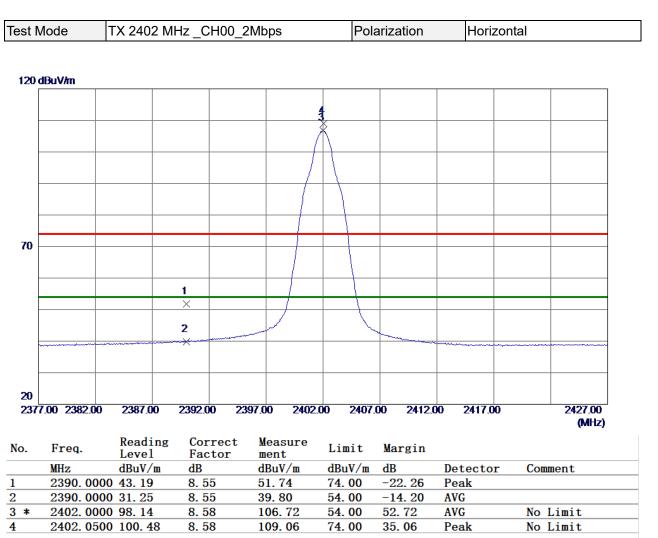


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



000.00 2700.00 4400.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000.00 . Freq. Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment	estiv	lode	TX 2480 I	MHz_CH	139_1M	bps	Pola	arization		Horizo	ntal	
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4959. 8700 51. 04 4. 25 55. 29 74. 00 -18. 71 Peak MARKS: Measurement Value = Reading Level + Correct Factor.	0.	Freq.	Reading Level	g Corr Fact	ect l	Measure ment		Margin				
MARKS: Measurement Value = Reading Level + Correct Factor.		MHz	Level dBuV/m	Fact dB	or i	ment dBuV/m	dBuV/m	dB			Cor	nment
Measurement Value = Reading Level + Correct Factor.	*	MHz 4959.860	Level dBuV/m 0 45.42	Fact dB 4.25		ment dBuV/m 49.67	dBuV/m 54. 00	dB −4. 33	AV	G	Cor	nment
Measurement Value = Reading Level + Correct Factor.	*	MHz 4959.860	Level dBuV/m 0 45.42	Fact dB 4.25		ment dBuV/m 49.67	dBuV/m 54. 00	dB −4. 33	AV	G	Cor	nment
Measurement Value = Reading Level + Correct Factor.	io. *	MHz 4959.860	Level dBuV/m 0 45.42	Fact dB 4.25		ment dBuV/m 49.67	dBuV/m 54. 00	dB −4. 33	AV	G	Cor	nment
Margin Level = Measurement Value - Limit Value.	*	MHz 4959.860 4959.870	Level dBuV/m 0 45.42	Fact dB 4.25		ment dBuV/m 49.67	dBuV/m 54. 00	dB −4. 33	AV	G	Cor	nment
	* EMA	MHz 4959.860 4959.870	Level dBuV/m 00 45. 42 00 51. 04	Fact dB 4. 25 4. 25		ment dBuV/m 49.67 55.29	dBuV/m 54.00 74.00	dB −4. 33	AV	G	Cor	nment
	* ====================================	MHz 4959. 860 4959. 870	Leve1 dBuV/m 00 45. 42 00 51. 04	Fact dB 4.25 4.25	Level +	ment dBuV/m 49.67 55.29 Correct Fa	dBuV/m 54.00 74.00	dB −4. 33	AV	G	Сог	nment
	* EMA	MHz 4959. 860 4959. 870	Leve1 dBuV/m 00 45. 42 00 51. 04	Fact dB 4.25 4.25	Level +	ment dBuV/m 49.67 55.29 Correct Fa	dBuV/m 54.00 74.00	dB −4. 33	AV	G	Cor	nment
	* EMA	MHz 4959. 860 4959. 870	Leve1 dBuV/m 00 45. 42 00 51. 04	Fact dB 4.25 4.25	Level +	ment dBuV/m 49.67 55.29 Correct Fa	dBuV/m 54.00 74.00	dB −4. 33	AV	G	Cor	nment
	* EMA	MHz 4959. 860 4959. 870	Leve1 dBuV/m 00 45. 42 00 51. 04	Fact dB 4.25 4.25	Level +	ment dBuV/m 49.67 55.29 Correct Fa	dBuV/m 54.00 74.00	dB −4. 33	AV	G		ment



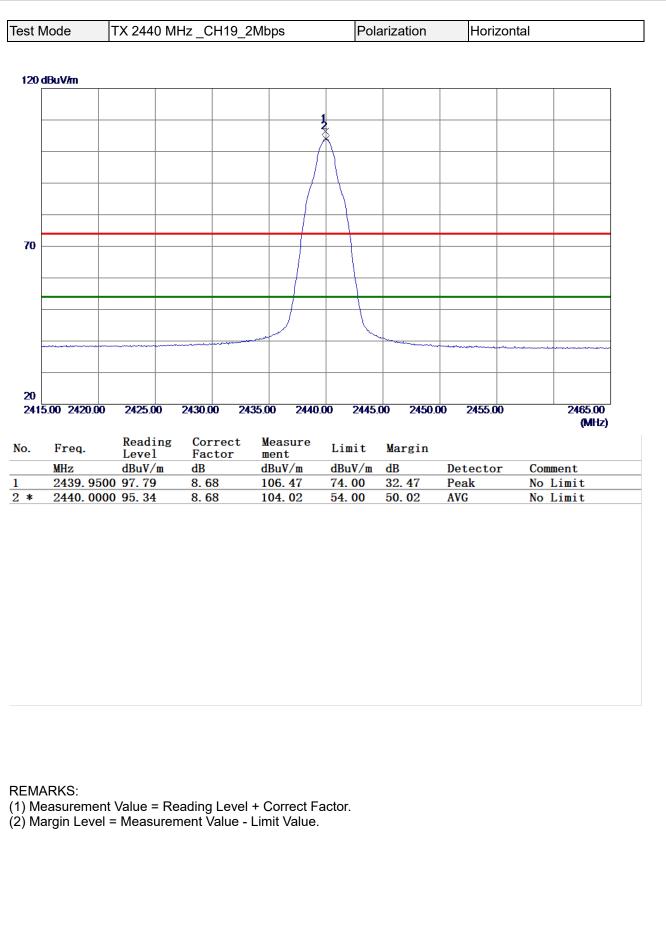


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



	de	TX 2402 Mł	lz_CH00_	2Mbps	Pola	arization	Horiz	zontal	
00 dBu	ıV/m								
		1							
50		×							
0	0 2700.00	4400.00	6100.00 7	800.00 9500.	00 11200).00 12900	.00 14600.	00	18000.00
1000.00	5 2100.00	4400.00	0100.00	000.00 5000	00 11200	1.00 12.300	.00 14000.		(MHz)
o. F	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin			
	Hz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detecto	r Com	nent
	1803. 050 1804. 029		3.97 3.97	54. 14 49. 99	74.00 54.00	-19.86 -4.01	Peak AVG		

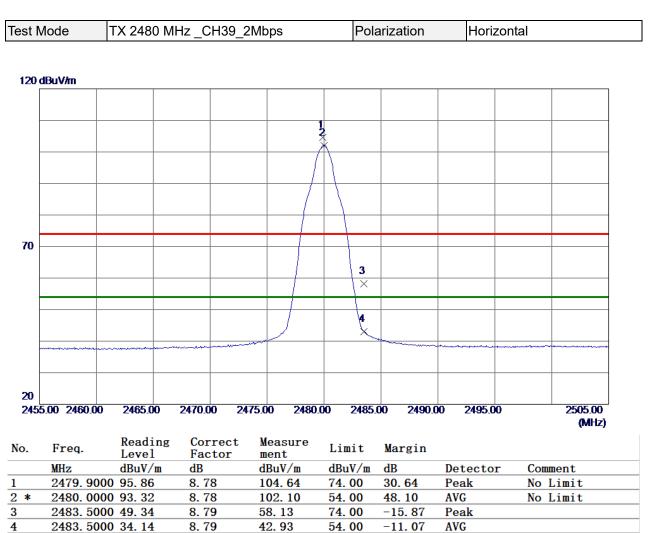






X X Image: Contract Measure Limit Margin 0. Freq. Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dB Detector Comment	st Mode	•	TX 2440) MHz	z_CH	19_2	Nbps		F	olariz	ation		Horiz	zont	al	
2																
50 X Image: Constraint of the second se	00 dBuV/i	inn														
50 X Image: Constraint of the sector of																
50 X Image: Constraint of the sector constraint of the secto																
50 K Image: Constraint of the sector constraint of the secto							_									
50 X Image: Constraint of the sector constraint of the secto																
50 X Image: Constraint of the sector of																
50 K Image: Constraint of the sector constraint of the secto				2												
O X Image: Constant of the state of the	50			¥												
1000.00 2700.00 4400.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000 (MH o. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment * 4880.0000 43.53 4.10 47.63 54.00 -6.37 AVG				×												
I000.00 2700.00 4400.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000 (MH b. Freq. Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment * 4880.0000 43.53 4.10 47.63 54.00 -6.37 AVG																
I000.00 2700.00 4400.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000 (MH b. Freq. Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment * 4880.0000 43.53 4.10 47.63 54.00 -6.37 AVG																
1000.00 2700.00 4400.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000 (MH p. Freq. Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment * 4880.0000 43.53 4.10 47.63 54.00 -6.37 AVG																
1000.00 2700.00 4400.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000 (MH o. Freq. Reading Level Correct Factor Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment * 4880.0000 43.53 4.10 47.63 54.00 -6.37 AVG																
Mile Reading Level Correct Measure ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment * 4880.0000 43.53 4.10 47.63 54.00 -6.37 AVG																
1000.00 2700.00 4400.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 18000 (MH io. Freq. Reading Correct Measure Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment * 4880.0000 43.53 4.10 47.63 54.00 -6.37 AVG	0															
o.Freq.Reading LevelCorrect FactorMeasure mentLimitMarginMHzdBuV/mdBdBuV/mdBuV/mdBDetectorComment*4880.000043.534.1047.6354.00-6.37AVG		2700.00	4400.00) 61	100.00	700	0.00	9500	.00 11	200.00	12900	0.00	14600	.00		18000.0
J. Freq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment * 4880.0000 43.53 4.10 47.63 54.00 -6.37 AVG						780	0.00	0000								
* 4880. 0000 43. 53 4. 10 47. 63 54. 00 -6. 37 AVG			Deedi													(MHz)
			Level		Corre Facto	ect	Meas ment	sure t	Limit	Ма						
	MHz	Z	Level dBuV/1	D	Corre Facto dB	ect or	Meas ment dBuV	sure t //m	Limit dBuV/	Ma m dF	3			r	Соп	
	MHz * 488	z 30. 000	Level dBuV/1 0 43.53	<u>n</u>	Corre Facto dB 4.10	ect or	Meas ment dBuV 47.6	sure t 7/m 53	Limit dBuV/ 54.00	Ma m dH -6	3 6. 37	AV	G	r	Соп	





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







est Mo	de	TX 2402	MHz_CH	00_500kbp	os(S=2)	Po	larizatio	n Horiz	ontal	
130.0) dBuV/m									
120										
110					3					
100					-					
90					+					
80					+					
70										
60										
50			1							
40			Ŷ				~~~~~			
30.0										
23	77.000 2382			2397.00	2402.00	2407.0	0 2412	00 2417.00	2427.00 MHz	
No. Mk	. Freq.	Readin Level	g Correct Factor	Measure- ment	Limit	Margin	1			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		_
1	2390.000	35.07	7 8.54	43.61	74.00	-30.39	peak			
2	2390.000	32.78	8.54	41.32	54.00	-12.68	AVG			_
3 X	2401.900	99.20	0 8.58	107.78	74.00	33.78	peak	No Limit		
4 *	2402.100	98.03	8.58	106.61	54.00	52.61	AVG	No Limit		_

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



st Mode	TX	(2402 M	Hz_CH0	0_500kbp	os(S=2)	Po	larizatio	on	Horizo	ontal	
100.0 d	Bu∀/m										
90											
80											
70											
60		1									
50		Ŷ									
40											
30											
20											
10											
0.0	00 2700.00	4400.00	6100.00	7800.00	9500.00	11200	.00 1290	0.00 14	600.00	18000.00 k	4U_
1000.0	00 2700.00				3300.00	11200	.00 1230	0.00 14	000.00	18000.00 P	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	ı				
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comme	ent		
1 48	03.540	48.66	3.96	52.62	74.00	-21.38	peak				

-4.35

AVG

REMARKS:

4804.060

45.68

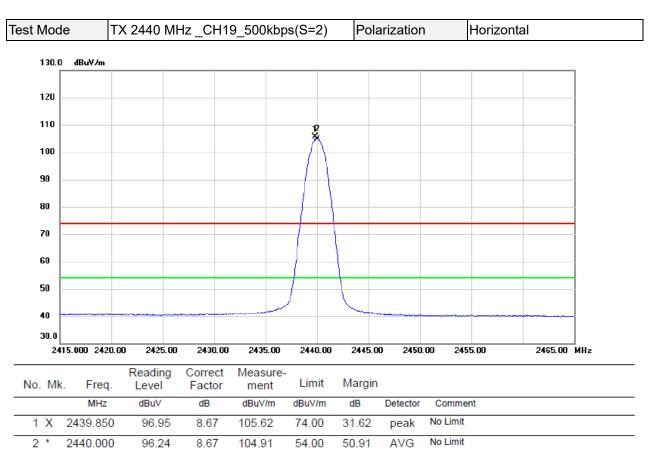
3.97

49.65 54.00

2 *

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.





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



Mode	e TX	K 2440 Mł	Hz_CH1	9_500kbp	s(S=2)	Po	larizatior	ו	Horizo	ntal	
100.0	dBuV/m										
90 -											
80 -											
70											
60 -		1									
50		×××									
40 -											
30											
20											
10 -											
0.0	0.000 2700.0	0 4400.00	6100.00	7800.00	9500.00	11200	.00 12900).00 14	600.00	18000.00 MHz	
o. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	ı				
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comme	ent		
1 4	4879.680	48.62	4.11	52.73	74.00	-21.27	peak				

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



st Mode	TX	(2480 MF	Hz_CH3	9_500kbp	s(S=2)	Pol	arizatior	n Horizo	ontal
130.0 d	lBuV/m								
120									
110					12				
100					12×				
90					-++				
80									
70									
60									
50						3 ¥			
40						×			
30.0									
2455.0	00 2460.00		2470.00	2475.00	2480.00	2485.0	JO 2490.	00 2495.00	2505.00 MHz
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	n		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 X 24	179.850	94.75	8.78	103.53	74.00	29.53	peak	No Limit	
2 * 24	180.000	94.41	8.78	103.19	54.00	49.19	AVG	No Limit	
3 24	183.500	37.65	8.79	46.44	74.00	-27.56	peak		
4 24	183.500	33.25	8.79	42.04	54.00	-11.96	AVG		

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



t Mode	ΤX	2480 MF	lz_CH39	_500kbps	s(S=2)	Pola	arization	ŀ	Iorizonta	
100.0 dB	uV/m									
90										
80										
70										
60			,							
50			2							
40										
30										
20										
10										
0.0	0 2700.00	4400.00	6100.00	7800.00	9500.00	11200	.00 12900).00 1460	0.00	18000.00 MHz
1000.000					3500.00	11200.	.00 12900	1.00 1460	0.00	18000.00 MHZ
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	n			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Commen	t	
1 * 496	0.060	45.25	4.26	49.51	54.00	-4.49	AVG			
2 496	0.260	48.75	4.26	53.01	74.00	-20.99	peak			

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



st Mode	TX	(2402 M	Hz_CH0	0_125kb	os(S=8)	Po	larizatio	'n	Horizon	tal	
130.0 dB	IV/m										-
120											
110					3						-
100					-						
90					+						
80											
70											
60											
50			¹ ×	/							
40			2 X			<u> </u>	~~~~			······	-
30.0) 2382.00	2397.00	2392.00	2397.00	2402.00	2407.0	0 0410	00 2417.		0407.00	
2377.000	2382.00				2402.00	2407.0	0 2412.	00 2417.	00	2427.00	MHZ
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin					
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	1		
1 239	0.000	42.60	8.54	51.14	74.00	-22.86	peak				
2 239	0.000	32.62	8.54	41.16	54.00	-12.84	AVG				
3 X 240	1.800	99.35	8.58	107.93	74.00	33.93	peak	No Limit			
4 * 240	2.000	98.49	8.58	107.07	54.00	53.07	AVG	No Limit			

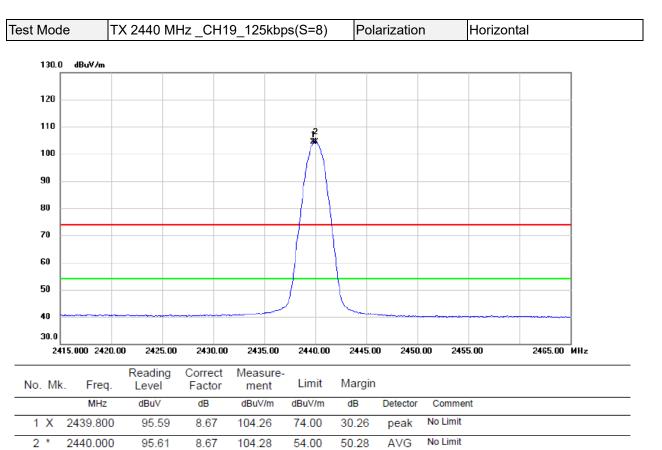
- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



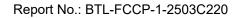
est Mo	de	TX 2402 N	/Hz_CH	0_125kb	ps(S=8)	Po	larizatior	n F	Iorizontal	
100.0	0 dBuV/m									-
90										
80										
70										
60		1	L							
50		,	l 5 							
40										
30										1
20										
10										-
0.0 10	00.000 2700	.00 4400.0	D 6100.00	7800.00	9500.00	11200.0	00 12900.	00 14600.0	00 19000.00) MHz
		Reading	Correct	Measure-						
No. M			Factor	ment	Limit	Margin				
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1	4803.300		3.96	53.06	74.00	-20.94	peak			
2 *	4804.060	45.46	3.97	49.43	54.00	-4.57	AVG			

- (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.





st Mo	de	TX 2440 M	Hz_CH1	9_125kb	os(S=8)	Po	larizatio	n	Horizon	ntal
100.0	0 dBuV/m									
90										
80										
70										
60		1								
50		×								
40										
30										
20										
10										
0.0										
10	000.000 2700		6100.00	7800.00	9500.00	11200.	.00 12900).00 1460	00.00	18000.00 MHz
o. Mi	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	I			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Commer	nt	
1	4879.680	48.11	4.11	52.22	74.00	-21.78	peak			

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



Mode	TX	2480 N	1Hz_Cł	139_125k	bps(S=	-8)	Po	olariza	ation	Horiz	zontal	
130.0 dB	uV/m											Т
120												_
110						e						
100					/	P X						
90					-+	$\left \right $						_
80						$\left \right $						-
70												
60						'	3					-
50					1		3 X 4					
40					and a		×				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-
30.0 2455.00) 2460.00	2465.0	0 2470	.00 2475.0	10 248	0.00	2485	.00	2490.00	2495.00	2505.00	MHz
	Freq.	Reading Level		ct Measu	re-		Margi					

peak

AVG

peak

AVG

No Limit

No Limit

29.73

49.01

-22.18

-12.11

REMARKS:

1 X

2 *

3

4

2479.800

2480.000

2483.500

2483.500

94.95

94.23

43.03

33.10

8.78

8.78

8.79

8.79

103.73

103.01

51.82

41.89

74.00

54.00

74.00

54.00

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



t Mode	TX	2480 MF	lz_CH39	_125kbp	s(S=8)	Pol	arization	ŀ	Horizonta	al
100.0 dBu	₩ <i>1</i> m									
90										
80										
70										
60										
50		2 X X								
40										
30										
20										
10										
0.0										
1000.000	2700.00	4400.00	6100.00	7800.00	9500.00	11200	.00 12900).00 1460	0.00	18000.00 MHz
No. Mk. F	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	ı			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Commen	t	
1 * 4959	9.980	45.10	4.26	49.36	54.00	-4.64	AVG			
2 4960	0.300	48.23	4.26	52.49	74.00	-21.51	peak			

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

Report No.: BTL-FCCP-1-2503C220

Mode	TX Mode	_1Mbps	s Chann	el 39		Polar	ization	Ver	lical
100.0 dBu	V/m								
90									
80									
70									
60									
50			1 2 X						
40			×						
30									
20									
10									
0.0	0 18950.00 1970	0.00 205	50.00 21	400.00 2	2250.00	23100.00	23950.00 248	300.00	26500.00 MHz

NO.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
 1	209	924.000	50.84	-0.10	50.74	83.50	-32.76	peak	
2	* 209	24.000	43.32	-0.10	43.22	63.50	-20.28	AVG	

REMARKS:

BIL

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

Report No.: BTL-FCCP-1-2503C220

	,

Mode	TXI	Mode_1I	Mbps Ch	annel 39		F	olariza	ation	Horizor	ntal
100.0 dB	uV/m									
90										
80										
70										
60								1		
50								1 2		
40								×		
30										
20										
10										
0.0										
18000.0	00 18850.00	19700.00) 20550.00	21400.00	22250.00	2310	0.00 23	950.00 2480	00.00	26500.00 MHz
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margi	n			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detect	or Commer	nt	
1 2471	5.000	49.78	2.24	52.02	83.50	-31.48	pea	ĸ		

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.

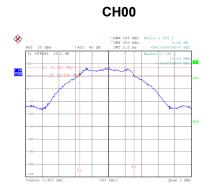


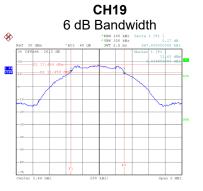
APPENDIX E - BANDWIDTH



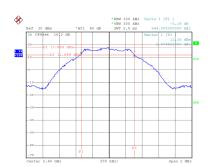


Test Mode TX Mode _1Mbps								
	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result		
	00	2402	0.656	1.048	0.5	Pass		
	19	2440	0.648	1.052	0.5	Pass		
	39	2480	0.644	1.048	0.5	Pass		

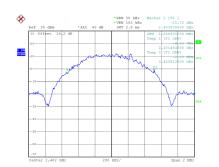




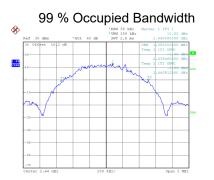
CH39



Date: 2.APR.2025 19:10:24

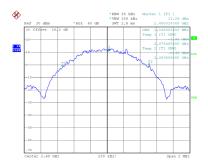


Date: 2.APR.2025 19:12:05



Date: 2.APR.2025 19:13:55

Date: 2.APR.2025 19:14:01

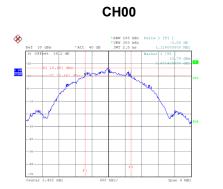


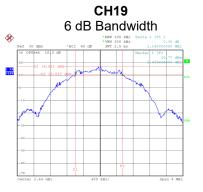
Date: 2.APR.2025 19:09:39

Date: 2.APR.2025 19:12:11

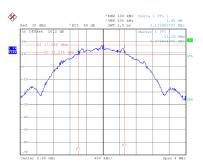


Т	Test Mode TX Mode _2Mbps									
	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result				
	00	2402	1.116	2.080	0.5	Pass				
	19	2440	1.140	2.072	0.5	Pass				
	39	2480	1.120	2.080	0.5	Pass				

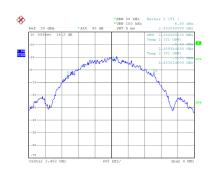




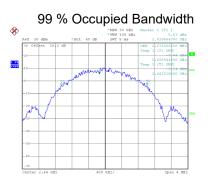
CH39



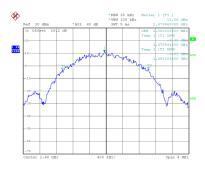
Date: 2.APR.2025 19:17:32



Date: 2.APR.2025 19:19:29



Date: 2.APR.2025 19:21:43



Date: 2.APR.2025 19:16:45

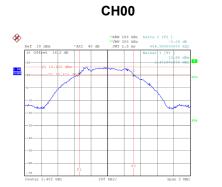
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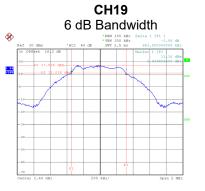
Date: 2.APR.2025 19:21:49



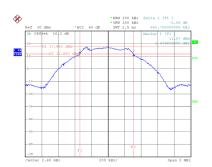


Т	Test ModeTX Mode500kbps(S=2)								
	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result			
	00	2402	0.655	1.036	0.5	Pass			
	19	2440	0.664	1.028	0.5	Pass			
	39	2480	0.651	1.036	0.5	Pass			

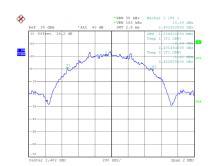




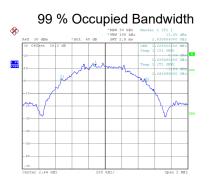
CH39



Date: 11.APR.2025 11:43:35

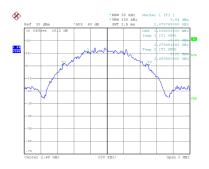


Date: 11.APR.2025 11:47:40



Date: 11.APR.2025 11:50:22

Date: 11.APR.2025 11:50:28



Date: 11.APR.2025 11:42:50

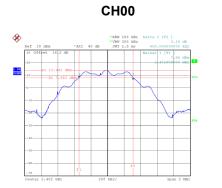
Date: 11.APR.2025 11:47:46

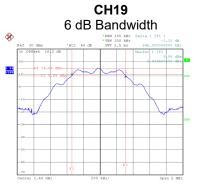
Page 74 of 86



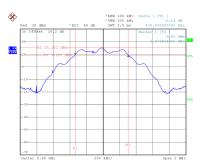


Test Mode TX Mode _125kbps(S=8)									
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result				
00	2402	0.650	1.064	0.5	Pass				
19	2440	0.646	1.060	0.5	Pass				
39	2480	0.638	1.064	0.5	Pass				

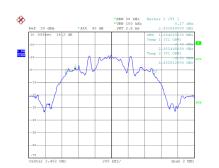




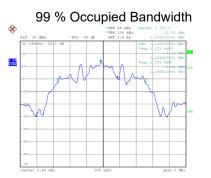




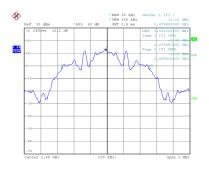
Date: 11.APR.2025 11:53:38



Date: 11.APR.2025 11:55:54



Date: 11.APR.2025 11:59:13



Date: 11.APR.2025 11:52:53

Date: 11.APR.2025 11:56:00

Date: 11.APR.2025 11:59:19

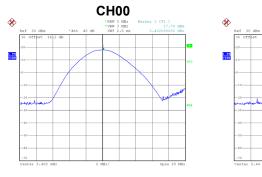


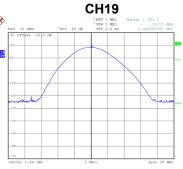
APPENDIX F - MAXIMUM OUTPUT POWER

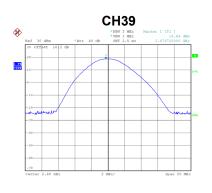


Τe	Test Mode TX Mode _1Mbps								
	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result			
	2402	17.78	0.0600	30.00	1.0000	Pass			
	2440	18.17	0.0656	30.00	1.0000	Pass			
	2480	18.64	0.0731	30.00	1.0000	Pass			

Note: Output power = Measure result + Cable loss







Date: 2.APR.2025 19:06:03

Date: 2.APR.2025 19:08:41

Date: 2.APR.2025 19:08:58

Test Mode TX Mode _2Mbps

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	17.65	0.0582	30.00	1.0000	Pass
2440	18.24	0.0667	30.00	1.0000	Pass
2480	18.59	0.0723	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

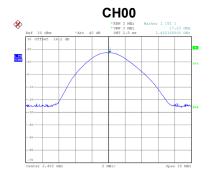


Date: 2.APR.2025 19:16:39



Te	Test Mode TX Mode _500kbps(S=2)								
	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result			
	2402	17.23	0.0528	30.00	1.0000	Pass			
	2440	17.69	0.0587	30.00	1.0000	Pass			
	2480	18.00	0.0631	30.00	1.0000	Pass			

Note: Output power = Measure result + Cable loss







Date: 11.APR.2025 11:42:38

Test Mode

Date: 11.APR.2025 11:46:56



Date: 11.APR.2025 11:58:24

TX Mode _125kbps(S=8)

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	16.80	0.0479	30.00	1.0000	Pass
2440	17.47	0.0558	30.00	1.0000	Pass
2480	17.75	0.0596	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss



Date: 11.APR.2025 11:55:11

Date: 11.APR.2025 11:52:47



APPENDIX G - CONDUCTED SPURIOUS EMISSION

