



FCC Radio Test Report

FCC ID: RWO-RC210179

This report concerns: Original Grant

Project No. : 2110C118

Equipment: Mobile phone cooler

Brand Name : RAZER **Test Model** : RC21-0179

Series Model : RC21-0179XXXX-XXXX (X can be 0-9 or A-Z)

Applicant: Razer Inc.

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Date of Receipt : Oct. 26, 2021

Date of Test : Oct. 27, 2021 ~ Nov. 29, 2021

Issued Date : Nov. 29, 2021

Report Version : R01

Test Sample: Sample No.: DG2021102674 for conducted,

DG2021102673 & DG2021102672 for radiated.

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

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

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

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ACCREDITED

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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).

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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.



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 17, 2021
R01	Revised report to address comments.	Nov. 29, 2021



1. 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.



1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 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% 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	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9kHz ~ 30MHz	•	3.02
		30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	Η	3.32
DG-CB03 CISPR	200MHz ~ 1,000MHz	V	4.08	
	200MHz ~ 1,000MHz	Τ	3.96	
		1GHz ~ 6GHz	ı	3.80
		6GHz ~ 18GHz	ı	4.82
	18GHz ~ 26.5GHz	ı	3.62	
		26.5GHz ~ 40GHz	-	4.00

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Conducted Spurious Emission	±2.71 dB
Power Spectral Density	±0.86 dB
Temperature	±0.08 °C
Humidity	±1.5%

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	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	23°C	65%	AC 120V/60Hz	Aries Tang
Radiated Emissions-9 kHz to 30 MHz	25°C	60%	DC 5V	Sparrow Liu
Radiated Emissions-30 MHz to 1000 MHz	26°C	52%	DC 5V	Laughing Zhang
Radiated Emissions-Above 1000 MHz	26°C	52%	DC 5V	Laughing Zhang
Bandwidth	25°C	50%	DC 5V	Longdage Feng
Maximum Output Power	25°C	50%	DC 5V	Longdage Feng
Conducted Spurious Emission	25°C	50%	DC 5V	Longdage Feng
Power Spectral Density	25°C	50%	DC 5V	Longdage Feng



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile phone cooler
Brand Name	RAZER
Test Model	RC21-0179
Series Model	RC21-0179XXXX-XXXX (X can be 0-9 or A-Z)
Model Difference(s)	It is the same as the basic model and X is used to define which country it is for under the same family series.
Power Source	Supplied from USB port.
Power Rating	5V === 2A
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps
Max. Output Power	1Mbps: -2.19 dBm (0.0006 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	Unictron Technologies Corp.	H2UB6D1K1B0100	chip	N/A	-0.4

Note: The antenna gain is provided by the manufacturer.



2.2 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_1Mbps Channel 19		

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 2	TX Mode_1Mbps Channel 19	

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 2	TX Mode_1Mbps Channel 19

Radiated emissions test - Above 1GHz		
Final Test Mode	Description	
Mode 1	TX Mode_1Mbps Channel 00/19/39	

Conducted test		
Final Test Mode Description		
Mode 1	TX Mode_1Mbps 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) There are two versions of this product, namely Clip and Magnet. The difference is that the appearance is different; the internal layout is the same. The measurements for radiated emissions test are tested; the Clip and Magnet are recorded in the report. The worst case is Magnet and only the worst case is documented for other test items.

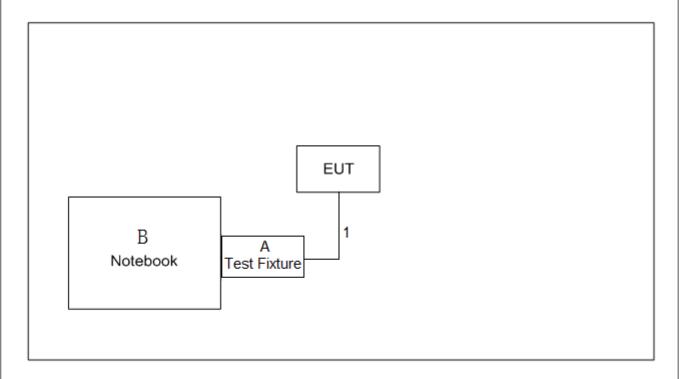
2.3 PARAMETERS OF TEST SOFTWARE

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	695x-FCC_assist_1.0.1.2		
Frequency (MHz)	2402	2440	2480
1Mbps	N/A	N/A	N/A



2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Test Fixture	N/A	N/A	N/A
В	Notebook	Honor	14SER5 3500	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	Data Cable	NO	NO	0.1m



3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)		
Frequency of Emission (MHZ)	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.

3.2 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:

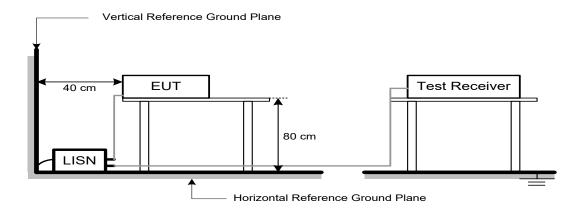
Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation.



3.4 TEST SETUP



3.5 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.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of <code>Note</code>. 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.



4. RADIATED EMISSIONS

4.1 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)	(dBuV/m at 3 m)	
Frequency (MHz)	Peak	Average
Above 1000	74	54

Note:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



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 1 GHz)
- 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 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	

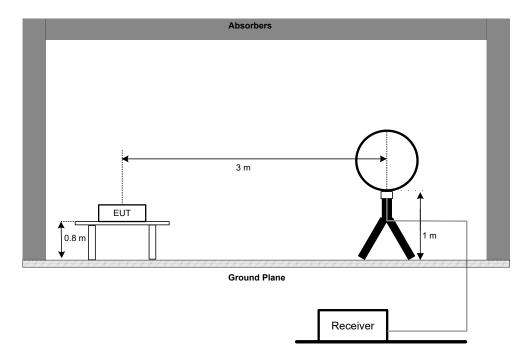
4.3 DEVIATION FROM TEST STANDARD

No deviation.

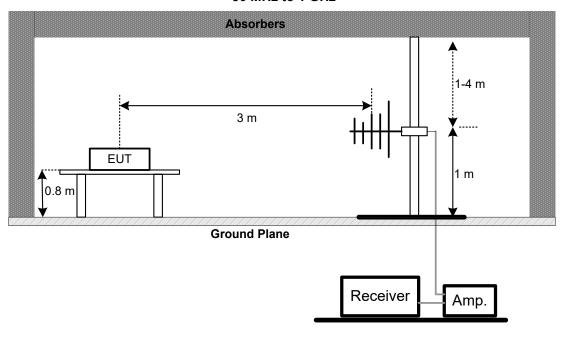


4.4 TEST SETUP

9 kHz to 30 MHz

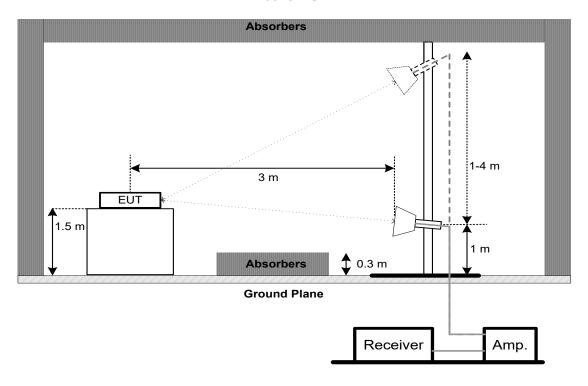


30 MHz to 1 GHz





Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT - 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.

4.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 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.



5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth >= 500 kHz	
	99% Emission 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. The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

I OI O UD Dalluwidill.	
Spectrum Parameters Setting	
Span Frequency	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Emission Bandwidth:

Of 33 // Efficient Bandwidth.				
Spectrum Parameters	Setting			
Span Frequency	Between 1.5 times and 5.0 times the OBW			
RBW	30 kHz			
VBW	100 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.



6. MAXIMUM OUTPUT POWER

6.1 LIMIT

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

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:

Spectrum Parameters	Setting
Span Frequency	≥ 3×RBW
RBW	3 MHz
VBW	3 MHz
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 F.



7. CONDUCTED SPURIOUS EMISSION

7.1 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.

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
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
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 G.



8. POWER SPECTRAL DENSITY

8.1 LIMIT

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

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
Span Frequency	2 MHz (1 Mbps)
RBW	3 kHz
VBW	10 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 H.



9. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2022	
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022	
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022	
4	50Ω Terminator	SHX	TF5-3	15041305	Feb. 27, 2022	
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
6	Cable	N/A	RG223	12m	Mar. 09, 2022	
7	643 Shield Room	ETS	6*4*3m	N/A	N/A	

	Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Loop Antenna	EM	EM-6876-1	230	Apr. 28, 2022	
2	Cable	N/A	RG 213/U	N/A	May 27, 2022	
3	MXE EMI Receiver	Keysight	N9038A	MY56400091	Feb. 27, 2022	
4	Measurement	Farad	EZ-EMC	N/A	N/A	
4	Software	raiau	Ver.NB-03A1-01	IN/A	IN/A	
5	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022	

Radiated Emissions - 30 MHz to 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 15, 2022	
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022	
3	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022	
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 20, 2022	
5	Controller	CT	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF780208416	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
8	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022	

	Radiated Emissions - Above 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Double Ridged Guide Antenna	ETS	3115	75789	May 10, 2022		
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022		
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022		
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT EMC2654045		980039 & HA01	Feb. 28, 2022		
5	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022		
6	Controller	CT	SC100	N/A	N/A		
7	Controller	MF	MF-7802	MF780208416	N/A		
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	Oct. 15, 2022		
9	Measurement Software	t EZ-EMC N/A Ver.NB-03A1-01		N/A	N/A		
10	Filter	STI	STI15-9912	N/A	Jul. 10, 2022		
11	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022		





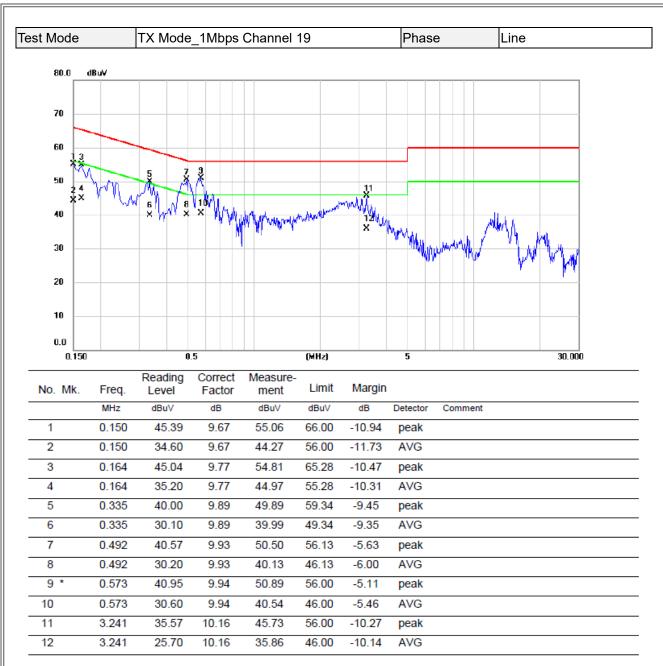
Bandwidth & Maximum Output Power & Power Spectral Density & Conducted Spurious Emission							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100185	Jul. 10, 2022		
2	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022		
3	RF Cable	Tongkaichuan	N/A	N/A	N/A		
4	DC Block	Mini	N/A	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.



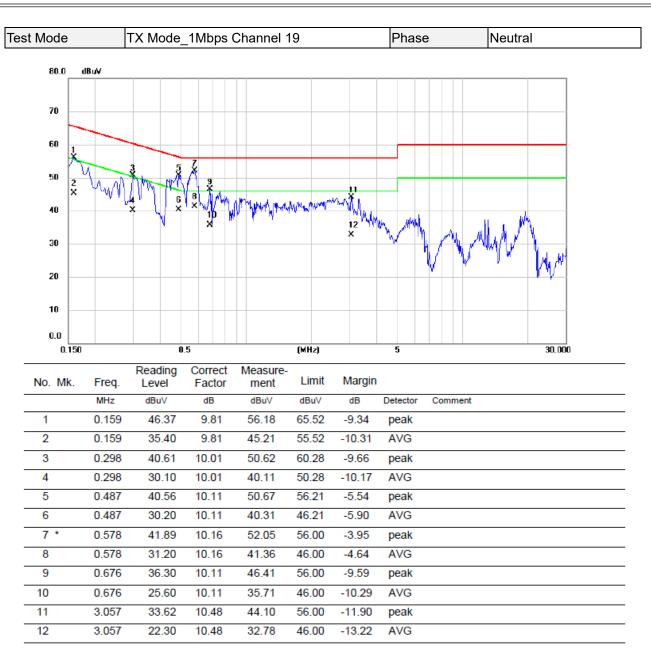
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS





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





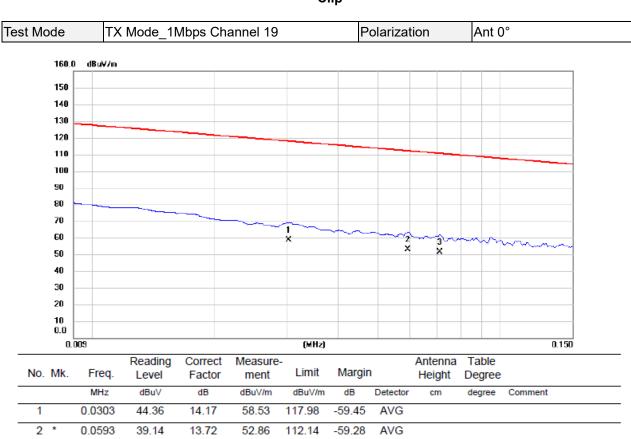
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ



Clip



REMARKS:

0.0710

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

13.73

51.25

110.58

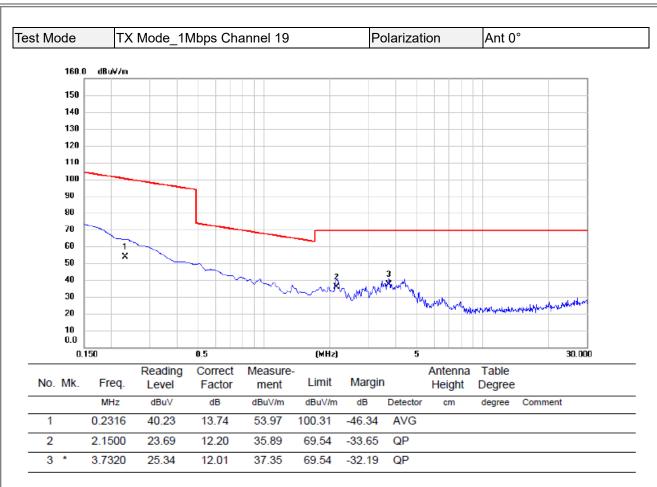
-59.33

AVG

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

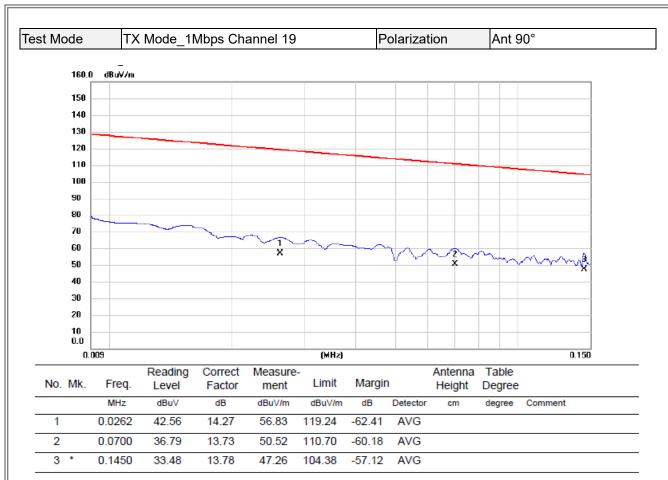
37.52





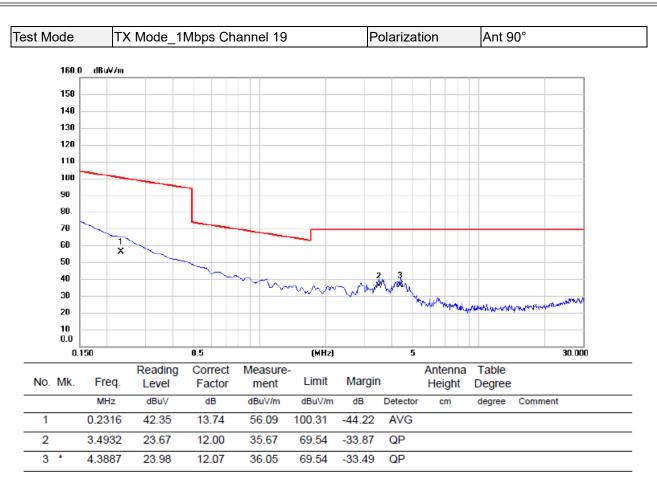
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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

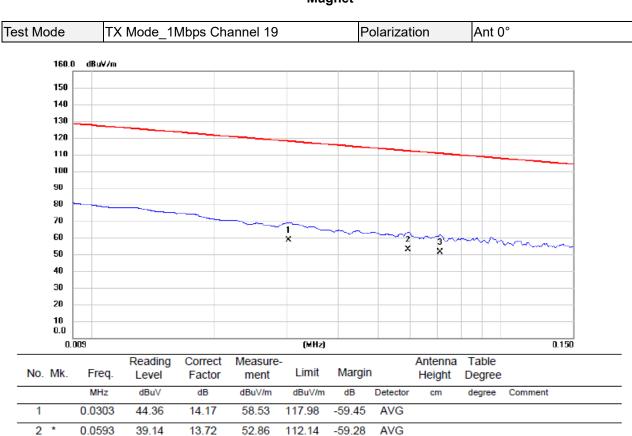




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Magnet



REMARKS:

0.0710

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

13.73

51.25

110.58

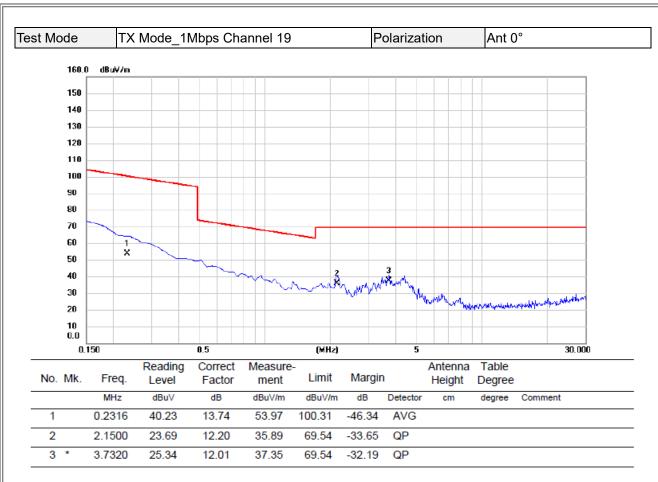
-59.33

AVG

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

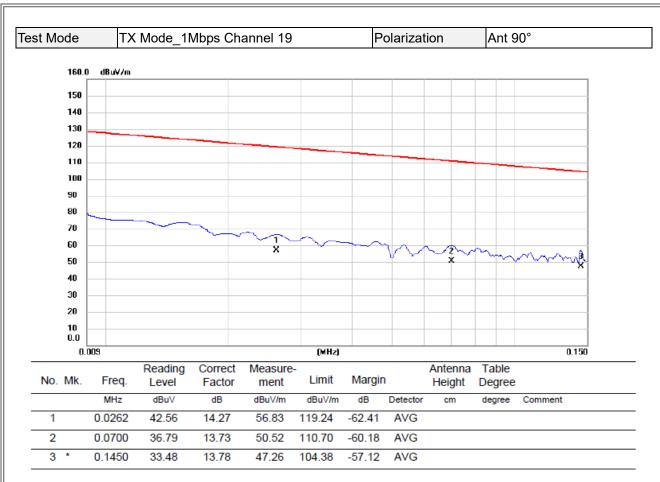
37.52





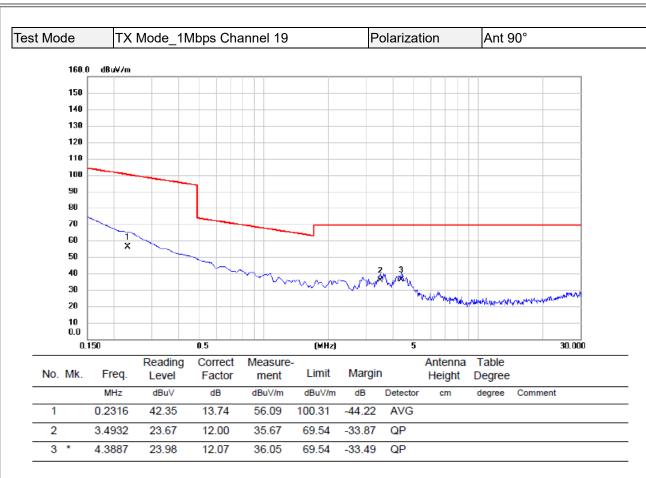
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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





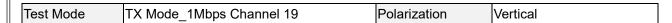
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

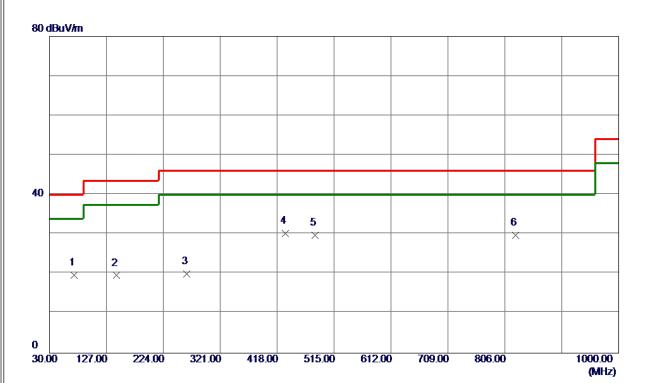


APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



Clip



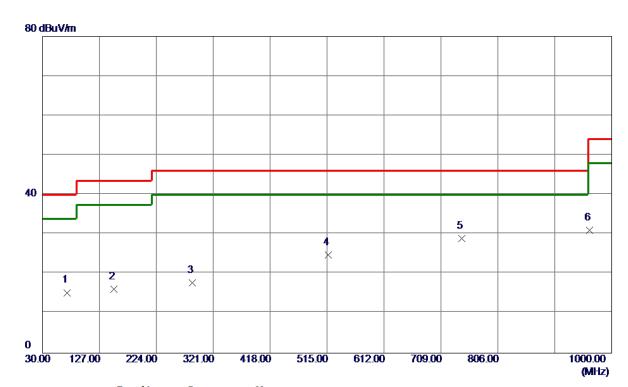


MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 1 72.1950 36.36 -16.71 19.65 40.00 -20.35 Peak 2 143.9750 32.44 -12.84 19.60 43.50 -23.90 Peak 3 263.7700 32.54 -12.51 20.03 46.00 -25.97 Peak 4 432.0650 38.38 -8.09 30.29 46.00 -15.71 Peak 5 482.5050 36.89 -7.07 29.82 46.00 -16.18 Peak 6 823.9450 30.57 -0.80 29.77 46.00 -16.23 Peak	No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
2 143. 9750 32. 44 -12. 84 19. 60 43. 50 -23. 90 Peak 3 263. 7700 32. 54 -12. 51 20. 03 46. 00 -25. 97 Peak 4 * 432. 0650 38. 38 -8. 09 30. 29 46. 00 -15. 71 Peak 5 482. 5050 36. 89 -7. 07 29. 82 46. 00 -16. 18 Peak		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
3 263.7700 32.54 -12.51 20.03 46.00 -25.97 Peak 4 * 432.0650 38.38 -8.09 30.29 46.00 -15.71 Peak 5 482.5050 36.89 -7.07 29.82 46.00 -16.18 Peak	1	72. 1950	36. 36	-16. 71	19. 65	40.00	-20. 35	Peak	
4 * 432.0650 38.38 -8.09	2	143. 9750	32. 44	-12. 84	19. 60	43. 50	-23. 90	Peak	
5 482. 5050 36. 89 -7. 07 29. 82 46. 00 -16. 18 Peak	3	263. 7700	32. 54	-12. 51	20. 03	46.00	-25.97	Peak	
	4 *	432.0650	38. 38	-8. 09	30. 29	46.00	-15. 71	Peak	
6 823.9450 30.57 -0.80 29.77 46.00 -16.23 Peak	5	482. 5050	36. 89	−7. 07	29.82	46.00	-16. 18	Peak	
	6	823. 9450	30. 57	-0. 80	29. 77	46.00	-16. 23	Peak	

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





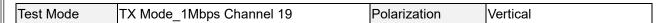


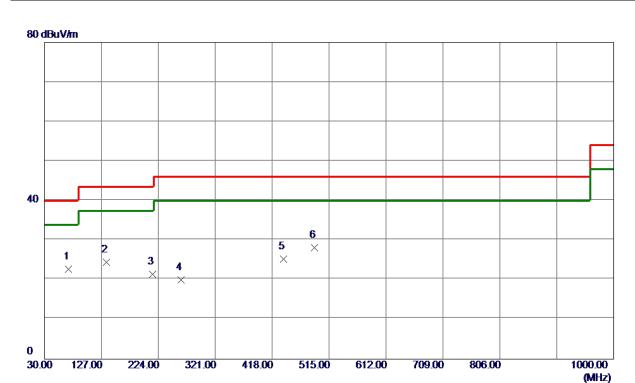
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	71. 7100	31. 88	-16. 60	15. 28	40.00	-24. 72	Peak	
2	152. 2200	28. 77	-12. 63	16. 14	43. 50	-27. 36	Peak	
3	285. 5950	29. 17	-11. 48	17. 69	46.00	-28. 31	Peak	
4	516. 9400	31. 35	-6. 57	24. 78	46.00	-21. 22	Peak	
5 *	744. 4050	31. 24	-2. 26	28. 98	46.00	-17. 02	Peak	
6	962. 6550	29. 26	1. 72	30. 98	54. 00	-23. 02	Peak	

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



Magnet



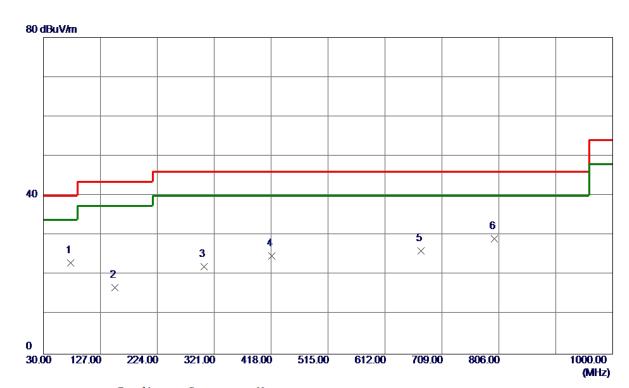


MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 1 * 70.7400 39.11 -16.38 22.73 40.00 -17.27 Peak 2 135.7300 37.70 -13.16 24.54 43.50 -18.96 Peak 3 214.3000 36.64 -15.13 21.51 43.50 -21.99 Peak 4 262.3150 32.62 -12.57 20.05 46.00 -25.95 Peak 5 436.9150 33.23 -7.96 25.27 46.00 -20.73 Peak 6 490.2650 35.12 -6.94 28.18 46.00 -17.82 Peak	No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
2 135. 7300 37. 70 -13. 16 24. 54 43. 50 -18. 96 Peak 3 214. 3000 36. 64 -15. 13 21. 51 43. 50 -21. 99 Peak 4 262. 3150 32. 62 -12. 57 20. 05 46. 00 -25. 95 Peak 5 436. 9150 33. 23 -7. 96 25. 27 46. 00 -20. 73 Peak		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
3 214. 3000 36. 64 -15. 13 21. 51 43. 50 -21. 99 Peak 4 262. 3150 32. 62 -12. 57 20. 05 46. 00 -25. 95 Peak 5 436. 9150 33. 23 -7. 96 25. 27 46. 00 -20. 73 Peak	1 *	70. 7400	39. 11	-16. 38	22. 73	40.00	-17. 27	Peak	
4 262. 3150 32. 62 -12. 57 20. 05 46. 00 -25. 95 Peak 5 436. 9150 33. 23 -7. 96 25. 27 46. 00 -20. 73 Peak	2	135. 7300	37. 70	-13. 16	24. 54	43. 50	-18. 96	Peak	
5 436. 9150 33. 23 -7. 96 25. 27 46. 00 -20. 73 Peak	3	214. 3000	36. 64	-15. 13	21. 51	43. 50	-21. 99	Peak	
	4	262. 3150	32. 62	-12. 57	20.05	46.00	-25.95	Peak	
6 490. 2650 35. 12 -6. 94 28. 18 46. 00 -17. 82 Peak	5	436. 9150	33. 23	-7. 96	25. 27	46.00	-20. 73	Peak	
	6	490. 2650	35. 12	-6. 94	28. 18	46.00	-17. 82	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (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	76. 5600	40. 70	-17. 67	23. 03	40.00	-16. 97	Peak	
2	152. 2200	29. 40	-12. 63	16. 77	43. 50	-26. 73	Peak	
3	304. 0250	33. 00	-10. 93	22. 07	46.00	-23. 93	Peak	
4	418. 9700	33. 25	-8. 44	24. 81	46.00	-21. 19	Peak	
5	673. 1100	29. 73	-3. 67	26. 06	46. 00	-19. 94	Peak	
6 *	798. 7250	29. 99	-0.86	29. 13	46.00	-16. 87	Peak	

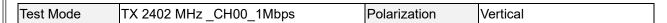
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

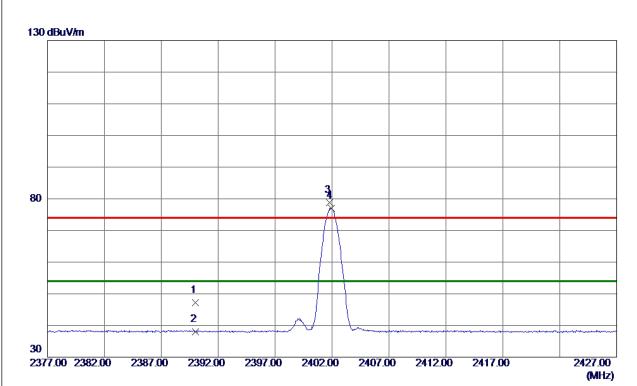


APPENDIX D - RADIATED EMISSION - ABOVE 1000 MH	IZ



Clip



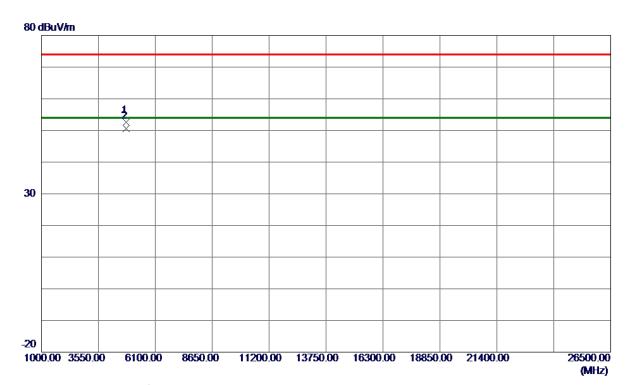


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	38. 80	8. 31	47. 11	74.00	-26. 89	Peak	
2	2390. 0000	29. 78	8. 31	38. 09	54.00	-15. 91	AVG	
3	2401. 8000	70. 49	8. 32	78. 81	74.00	4. 81	Peak	No Limit
4 *	2401. 9500	68. 76	8. 32	77. 08	54.00	23. 08	AVG	No Limit

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



Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Vertical

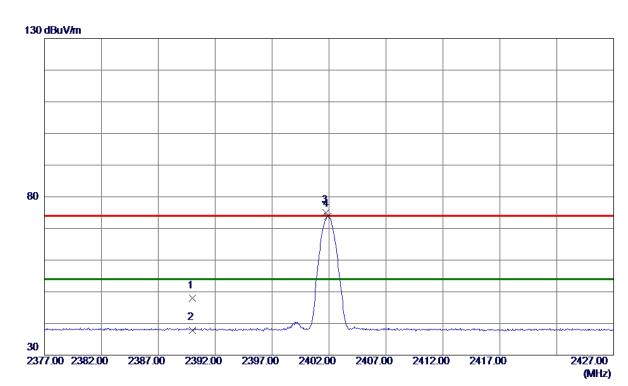


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4801.0099	47. 39	5. 11	52. 50	74.00	-21. 50	Peak	
2 *	4801.0099	45. 40	5. 11	50. 51	54.00	-3. 49	AVG	

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



Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal

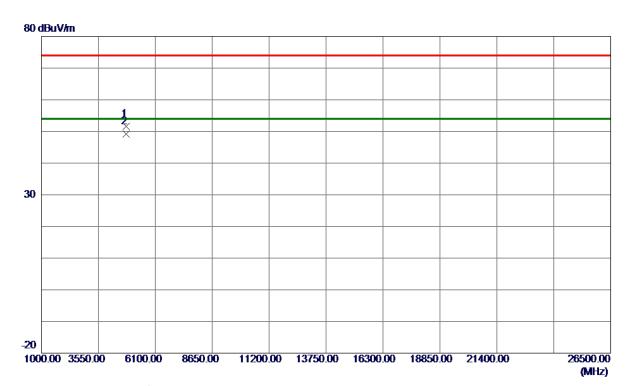


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	39. 63	8. 31	47. 94	74.00	-26.06	Peak	
2	2390. 0000	29. 59	8. 31	37. 90	54.00	-16. 10	AVG	
3	2401. 7500	66. 69	8. 32	75. 01	74.00	1. 01	Peak	No Limit
4 *	2401. 9000	65. 46	8. 32	73. 78	54. 00	19. 78	AVG	No Limit

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



Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal

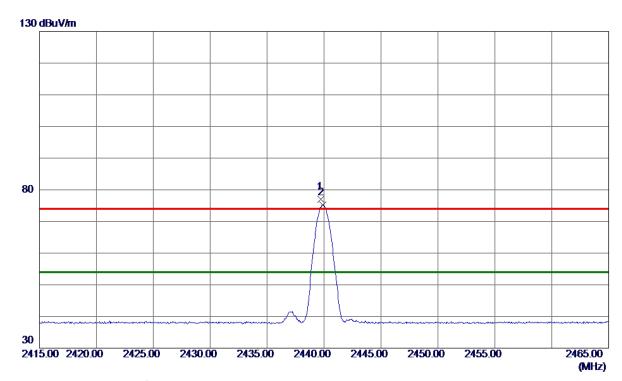


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4801. 0099	46. 42	5. 11	51. 53	74.00	-22. 47	Peak	
2 *	4801.0099	44. 01	5. 11	49. 12	54.00	-4. 88	AVG	

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





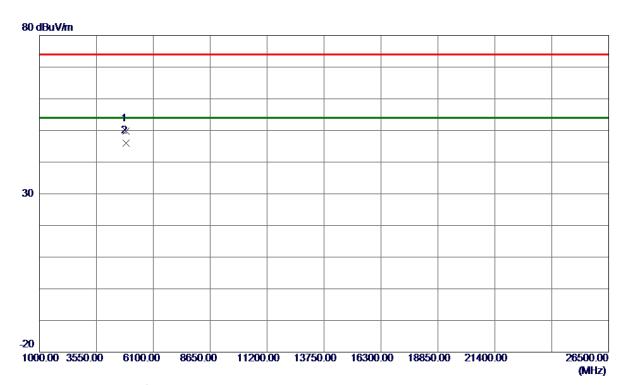


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 7500	68. 70	8. 37	77. 07	74.00	3. 07	Peak	No Limit
2 *	2439. 9000	66. 80	8. 37	75. 17	54.00	21. 17	AVG	No Limit

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



Test Mode	TX 2440 MHz CH19 1Mbps	Polarization	Vertical

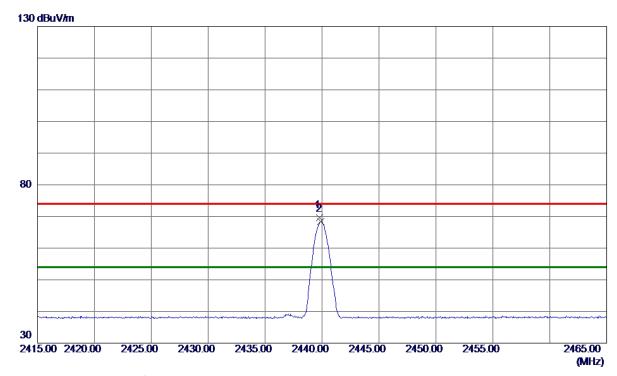


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4877. 0099	44. 29	5. 50	49. 79	74.00	-24. 21	Peak	
2 *	4877. 0099	40. 44	5. 50	45. 94	54.00	-8. 06	AVG	

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



Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal

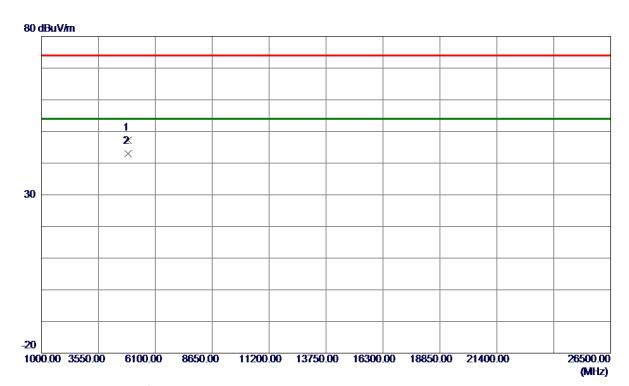


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439. 8000	61. 25	8. 37	69. 62	74.00	-4. 38	Peak	No Limit
2 *	2439. 9000	59. 96	8. 37	68. 33	54.00	14. 33	AVG	No Limit

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



Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal

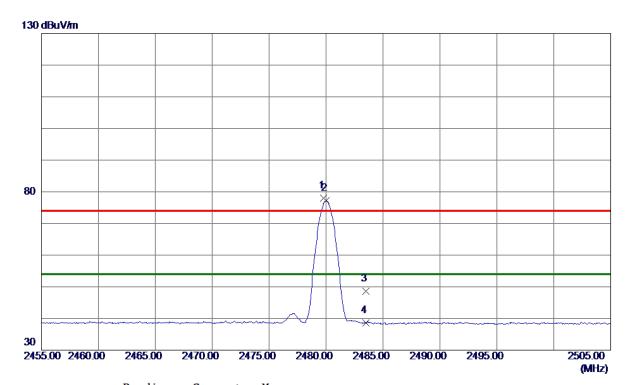


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4877. 0099	41. 67	5. 50	47. 17	74.00	-26. 83	Peak	
2 *	4877. 0099	37. 51	5. 50	43. 01	54.00	-10. 99	AVG	

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



Test Mode	TX 2480 MHz CH39 1Mbps	Polarization	Vertical

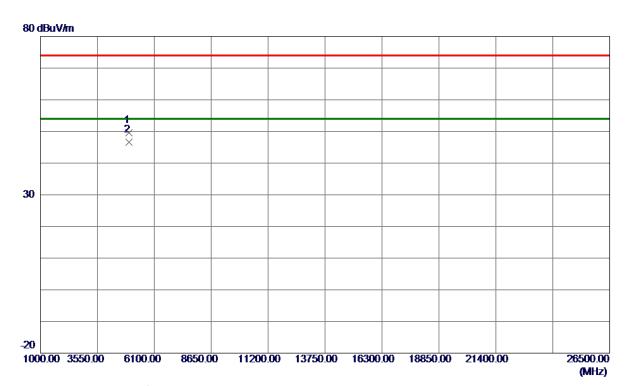


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 8000	69. 66	8. 42	78. 08	74.00	4. 08	Peak	No Limit
2 *	2480. 0000	68. 71	8. 42	77. 13	54.00	23. 13	AVG	No Limit
3	2483. 5000	40. 16	8. 42	48. 58	74.00	-25. 42	Peak	
4	2483. 5000	30. 27	8. 42	38. 69	54.00	-15. 31	AVG	

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



Test Mode	TX 2480 MHz CH39 1Mbps	Polarization	Vertical

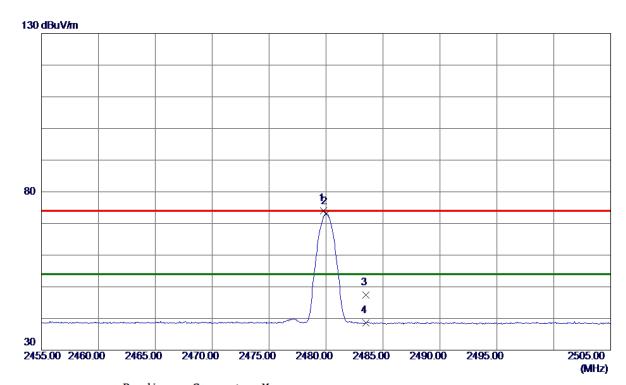


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4957. 0099	43. 75	5. 90	49.65	74.00	-24. 35	Peak	
2 *	4957. 0099	40. 72	5. 90	46. 62	54.00	-7. 38	AVG	

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



Test Mode	TX 2480 MHz CH39 1Mbps	Polarization	Horizontal

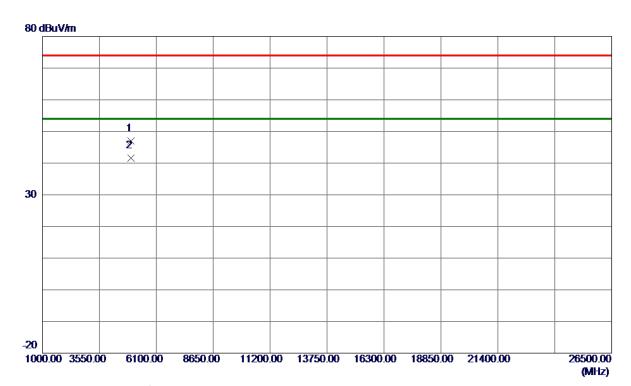


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479. 8000	65. 61	8. 42	74. 03	74.00	0. 03	Peak	No Limit
2 *	2480. 0000	64. 57	8. 42	72. 99	54.00	18. 99	AVG	No Limit
3	2483. 5000	38. 90	8. 42	47. 32	74.00	-26. 68	Peak	
4	2483. 5000	30. 17	8. 42	38. 59	54.00	-15. 41	AVG	

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



Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal

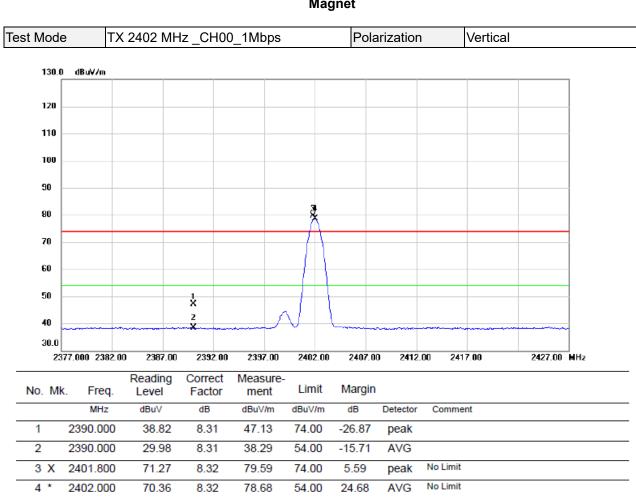


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4957. 0099	41. 03	5. 90	46. 93	74.00	-27. 07	Peak	
2 *	4957. 0099	35. 73	5. 90	41.63	54.00	-12. 37	AVG	

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



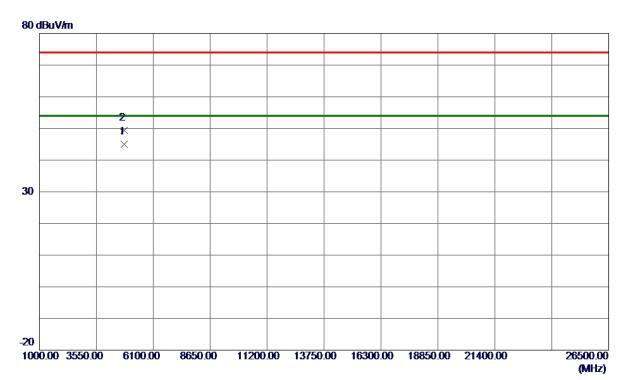
Magnet



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



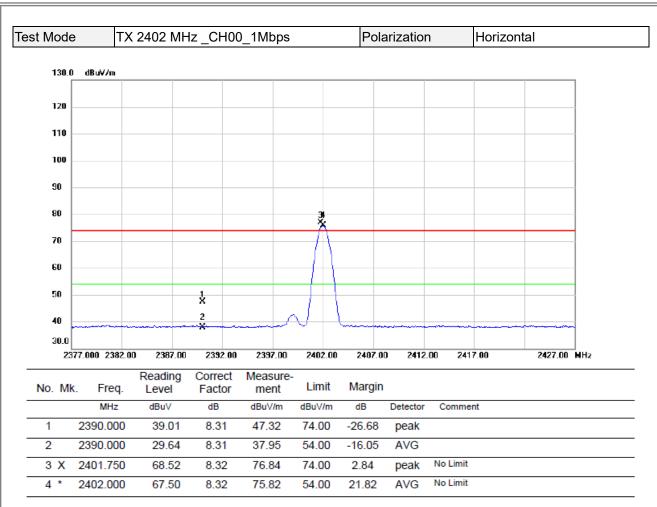
Test Mode	TX 2402 MHz CH00 1Mbps	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4800. 9900	39. 92	5. 11	45. 03	54.00	-8. 97	AVG	
2	4801, 1150	44. 21	5. 11	49. 32	74.00	-24. 68	Peak	

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

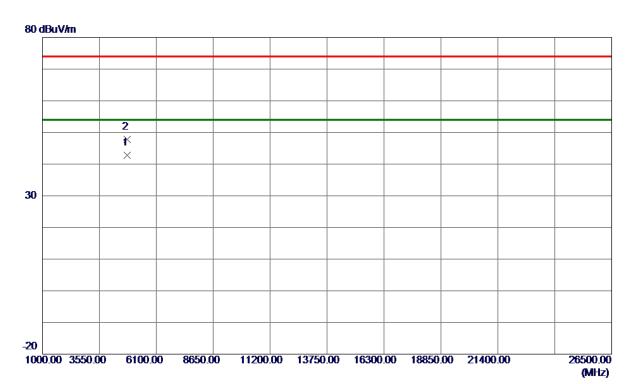




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



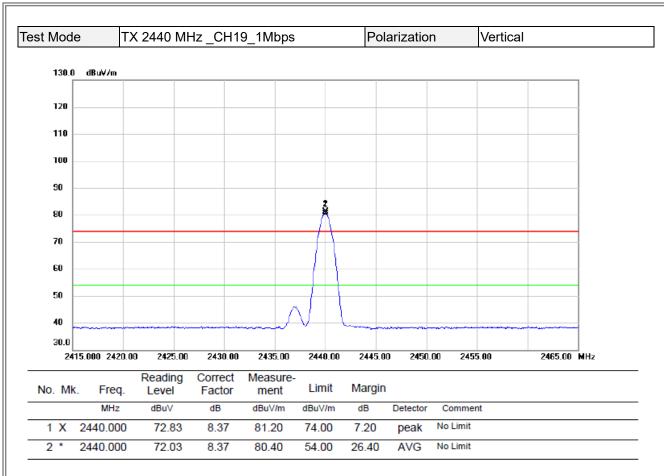
Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4800. 9850	37. 60	5. 11	42.71	54.00	-11. 29	AVG	
2	4801. 1600	42. 75	5. 11	47. 86	74. 00	-26. 14	Peak	

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

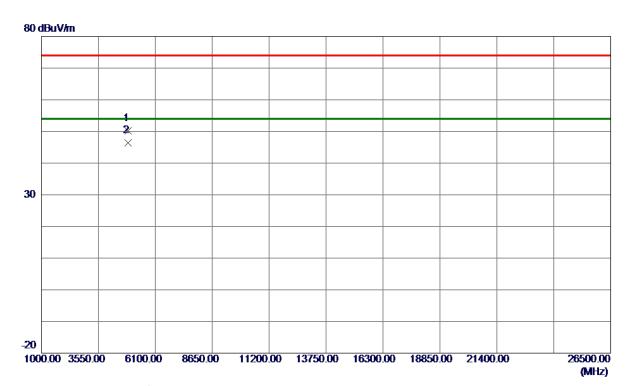




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



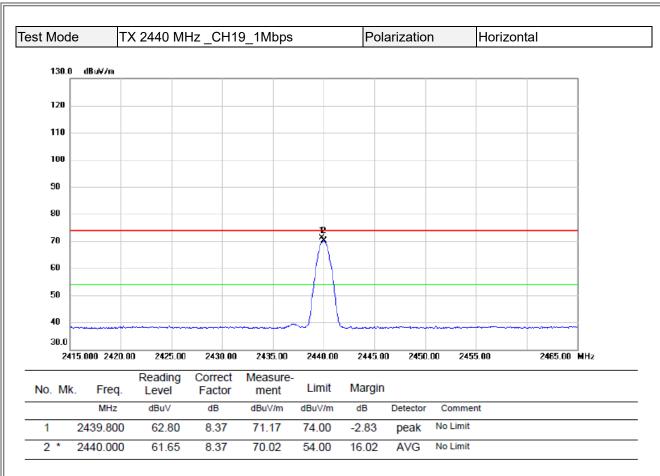
Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876. 9700	44. 68	5. 50	50. 18	74.00	-23.82	Peak	
2 *	4877. 0500	40. 86	5. 50	46. 36	54.00	-7. 64	AVG	

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

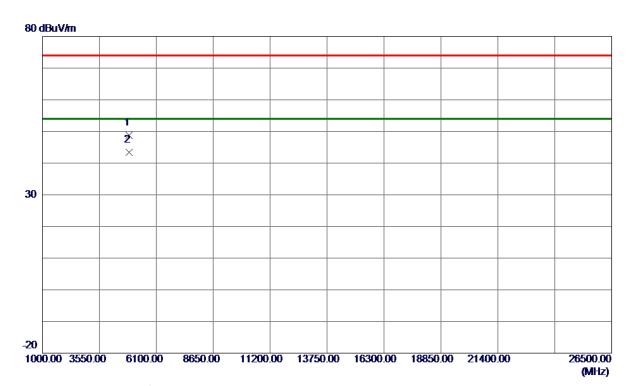




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



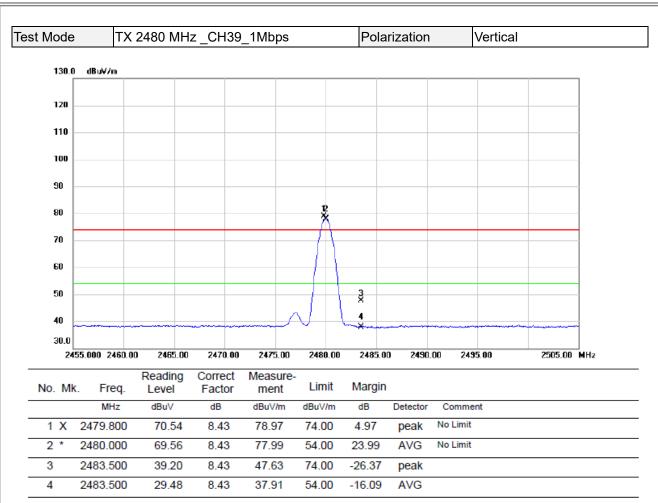




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876. 8600	43. 25	5. 50	48. 75	74.00	-25. 25	Peak	
2 *	4876. 9300	37. 90	5. 50	43. 40	54.00	-10.60	AVG	

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

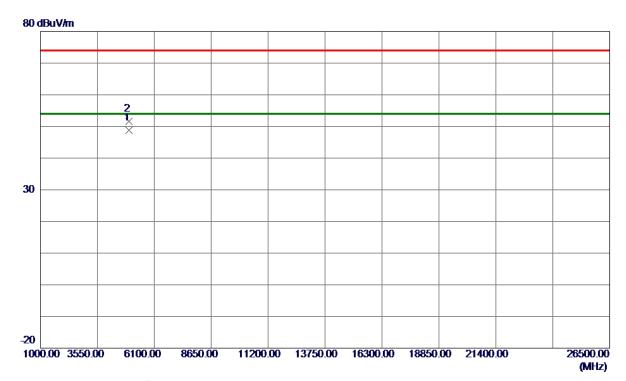




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



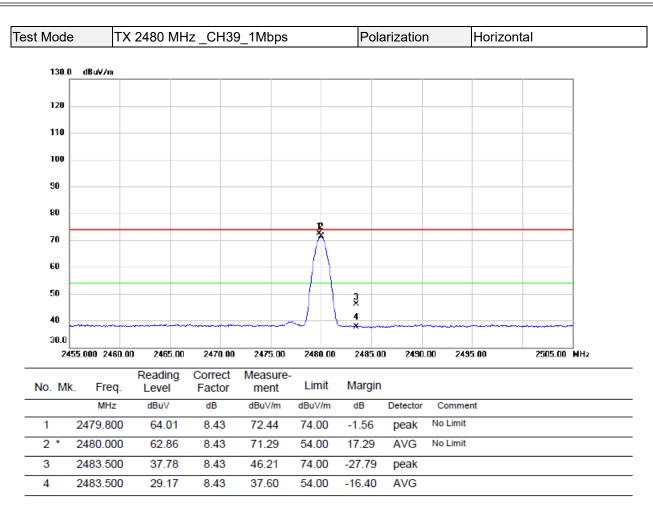
Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4956. 9750	42. 96	5. 90	48. 86	54.00	-5. 14	AVG	
2	4957. 0000	45. 73	5. 90	51. 63	74.00	-22. 37	Peak	

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

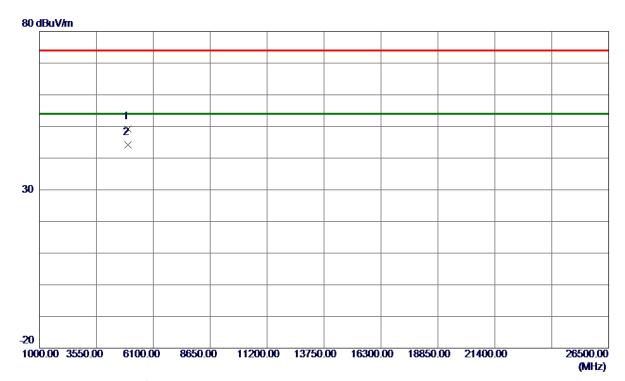




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode	TX 2480 MHz CH39 1Mbps	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4956. 7879	43. 39	5. 90	49. 29	74.00	-24. 71	Peak	
2 *	4957. 0450	38. 36	5. 90	44. 26	54.00	-9. 74	AVG	

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

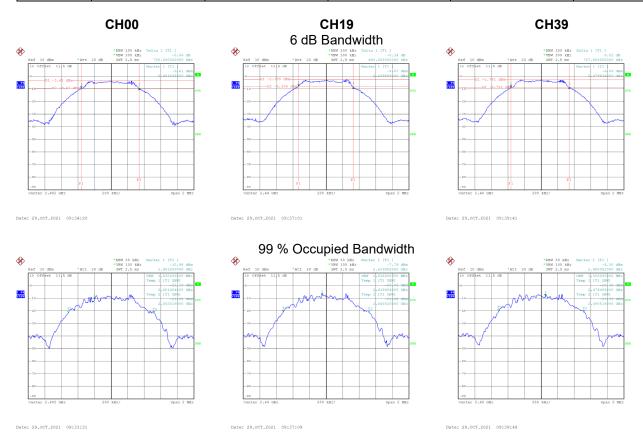


APPENDIX E - BANDWIDTH



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	0.700	1.032	0.5	Pass
19	2440	0.660	1.036	0.5	Pass
39	2480	0.708	1.028	0.5	Pass



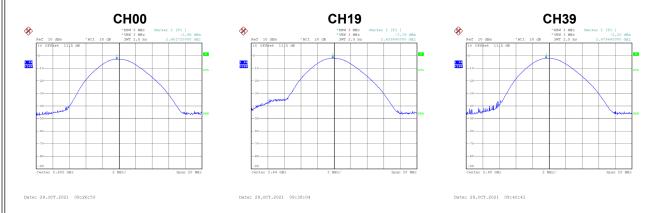


APPENDIX F - MAXIMUM OUTPUT POWER



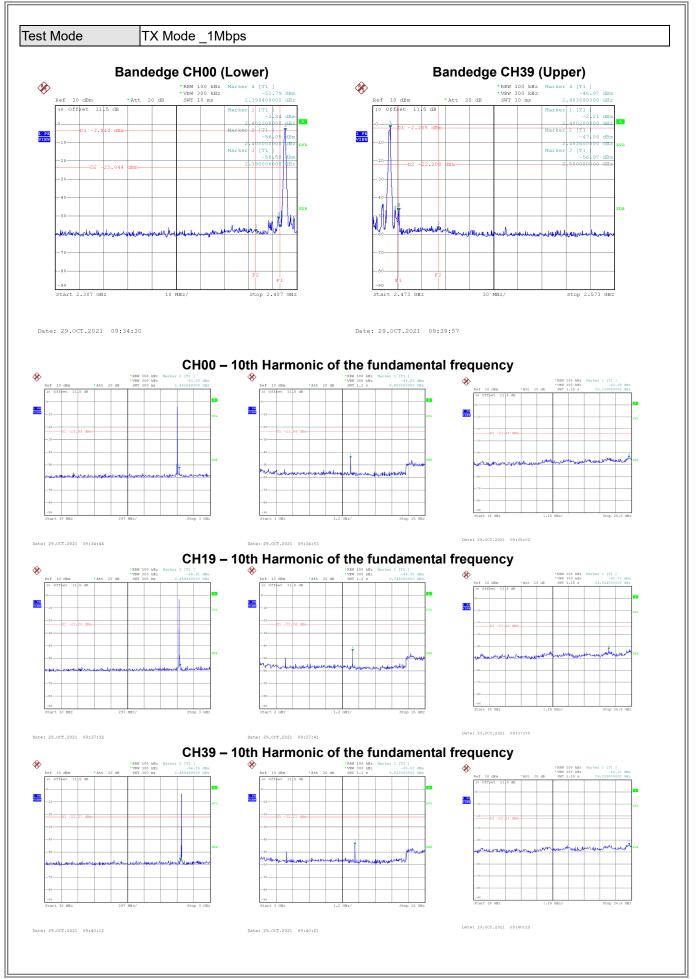
Test Mode	TX Mode	1Mbps

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-2.95	0.0005	30.00	1.0000	Pass
2440	-2.19	0.0006	30.00	1.0000	Pass
2480	-2.22	0.0006	30.00	1.0000	Pass



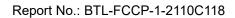








APPENDIX H - POWER SPECTRAL DENSITY





Test Mode TX Mode _1Mbps

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-19.12	8.00	Pass
19	2440	-18.73	8.00	Pass
39	2480	-18.80	8.00	Pass

