



# FCC Radio Test Report

## FCC ID: 2A006-WLT5283M

This report concerns: Original Grant

**Project No.** : 2403H028  
**Equipment** : module  
**Brand Name** : N/A  
**Test Model** : WLT5283M  
**Series Model** : WLT5281M,WLT3282M  
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**Date of Receipt** : Mar. 22, 2024  
**Date of Test** : Mar. 26, 2024~Apr. 23, 2024  
**Issued Date** : Apr. 24, 2024  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: SH2024032272 for radiation, SH2024032271 for conducted.  
**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. (Shanghai)

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**Declaration**

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**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** 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 No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2403H028	R00	Original Report.	Apr. 24, 2024	Valid

### 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	N/A	-----
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. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China  
 BTL's Registration Number for FCC: 964234  
 BTL's Designation Number for FCC: CN1374

### 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. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB02	CISPR	9 KHz~30 MHz	-	1.36
		30 MHz~200 MHz	V	4.4
		30 MHz~200 MHz	H	3.16
		200 MHz~1,000 MHz	V	4.6
		200 MHz~1,000 MHz	H	4.2
		1GHz ~ 6GHz	-	4.56
		6GHz ~ 18GHz	-	5.14
		18 ~ 26.5 GHz	-	3.36

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
Radiated Emissions-9 kHz to 30 MHz	20°C	48%	DC 3V	Yahya Fang
Radiated Emissions-30 MHz to 1000 MHz	20°C	48%	DC 3V	Yahya Fang
Radiated Emissions-Above 1000 MHz	20°C	48%	DC 3V	Yahya Fang
Bandwidth	20°C	44%	DC 3V	Thacker Tang
Maximum Output Power	20°C	44%	DC 3V	Thacker Tang
Conducted Spurious Emission	20°C	44%	DC 3V	Thacker Tang
Power Spectral Density	20°C	44%	DC 3V	Thacker Tang

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	module
Brand Name	N/A
Test Model	WLT5283M
Series Model	WLT5281M, WLT3282M
Model Difference(s)	Only named differently,else no difference.
Software Version	V1.0
Hardware Version	V1.1
Power Source	Supplied from PC USB port.
Power Rating	1.7~3.6V
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps
Max. Output Power	2Mbps: 2.04 dBm (0.0016 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	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	3

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_2Mbps Channel 00/19/39

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

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 00/19/39

Note:

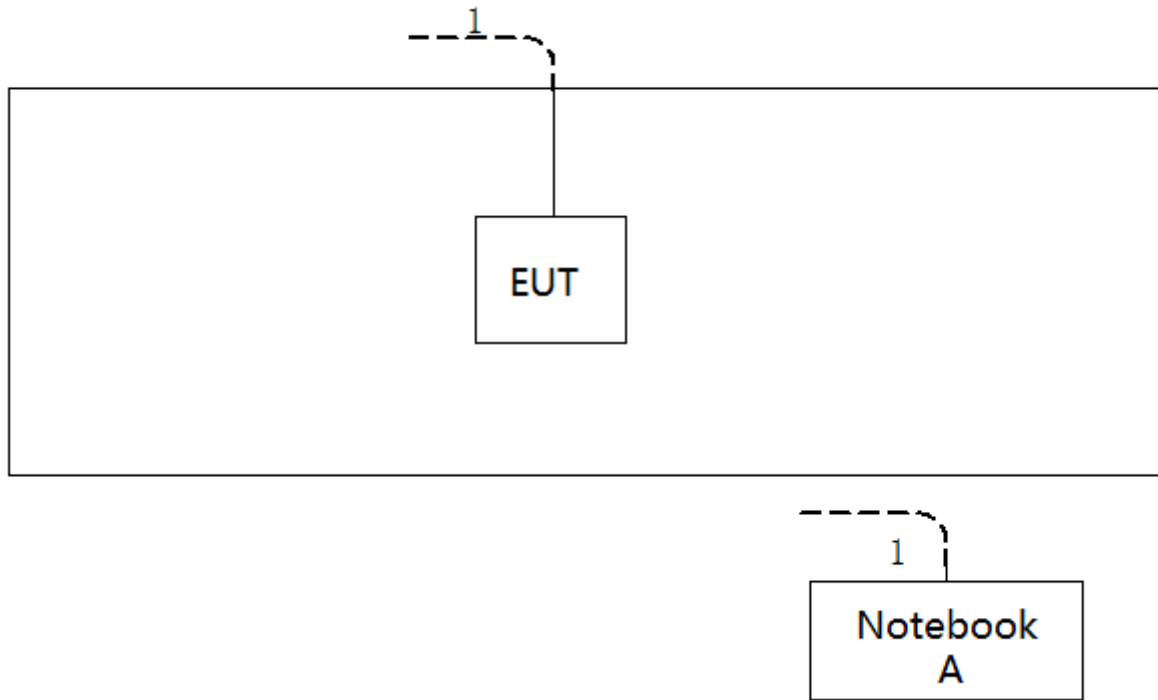
- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For 18-26.5 GHz, the worst case is 2Mbps Channel 00, only the worst cases are documented in report.

### 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	nrfconnect		
Frequency (MHz)	2402	2440	2480
1Mbps	8	8	8
2Mbps	8	8	8

## 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 2.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	RJ45 Cable	NO	NO	10m

### 3. RADIATED EMISSIONS

#### 3.1 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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	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).

### 3.2 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 (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

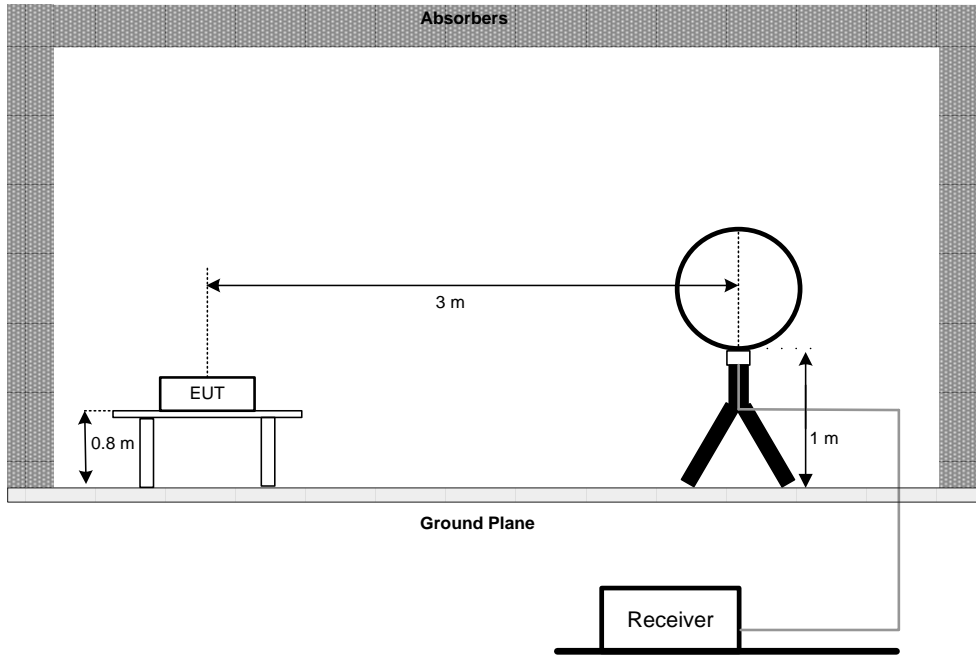
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

### 3.3 DEVIATION FROM TEST STANDARD

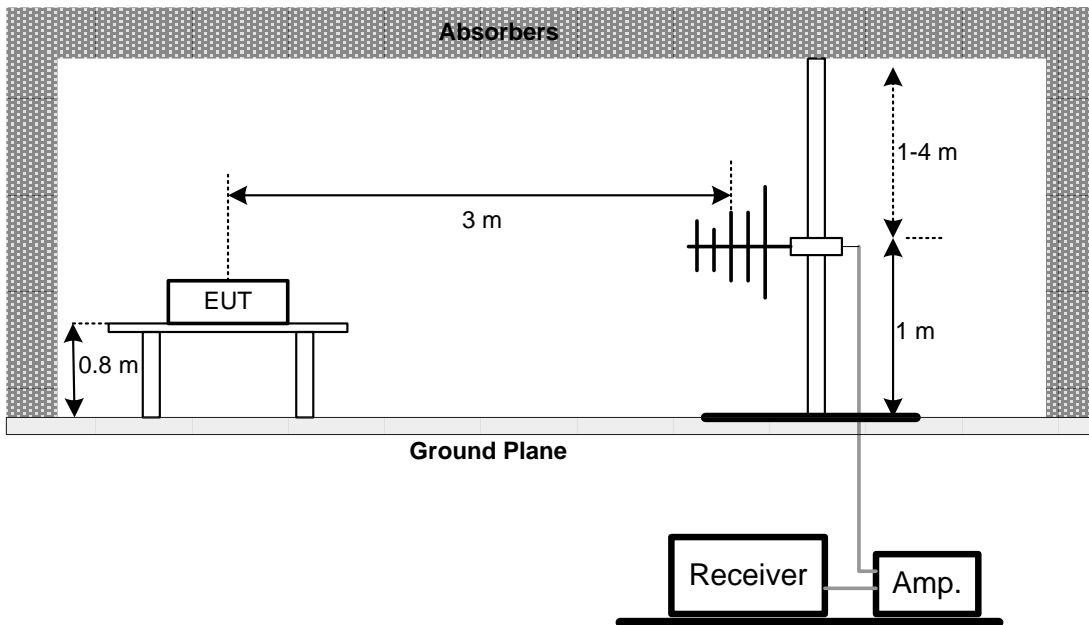
No deviation.

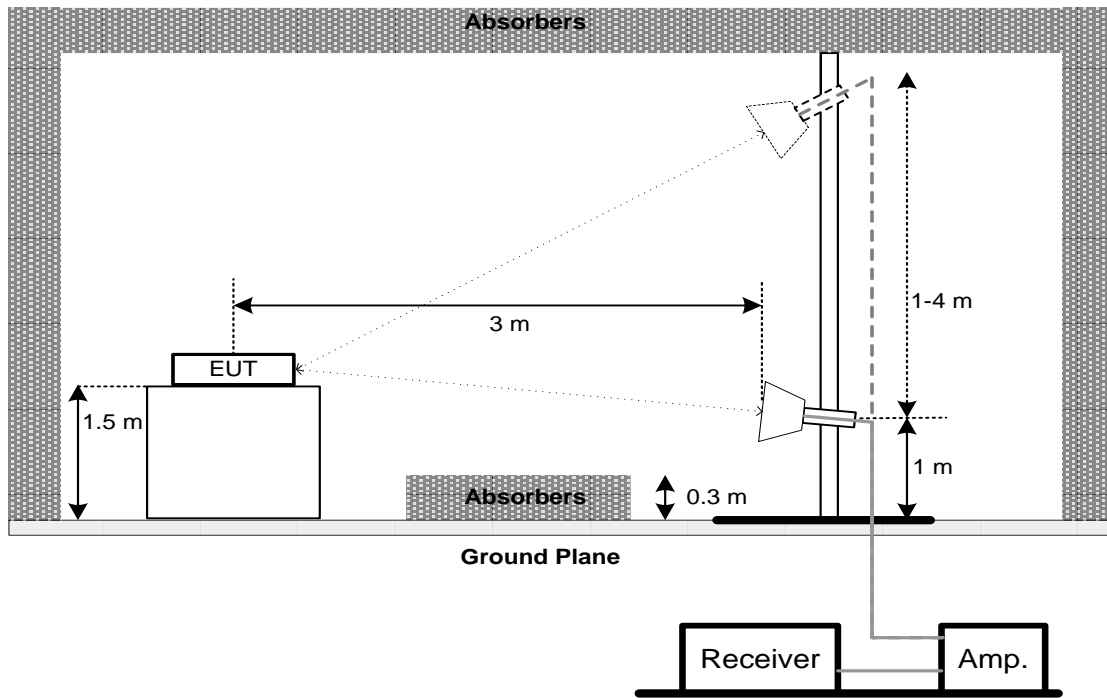
### 3.4 TEST SETUP

#### 9 kHz to 30 MHz



#### 30 MHz to 1 GHz



**Above 1 GHz**



**3.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**3.6 TEST RESULT - 9 kHz TO 30 MHz**

Please refer to the Appendix A.

Remark:

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

**3.7 TEST RESULT - 30 MHz TO 1000 MHz**

Please refer to the Appendix B.

**3.8 TEST RESULT - ABOVE 1000 MHz**

Please refer to the Appendix C.

Remark:

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

**4. BANDWIDTH**

**4.1 LIMIT**

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	$\geq 500$ kHz
	99% Emission Bandwidth	-

**4.2 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 Frequency	$>$ Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

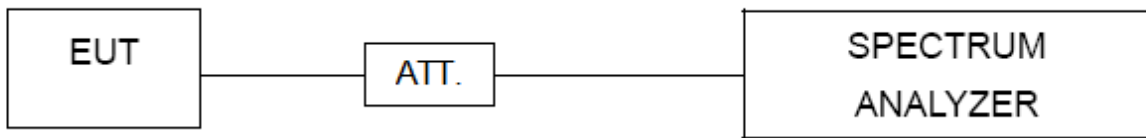
For 99% Emission Bandwidth:

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

**4.3 DEVIATION FROM STANDARD**

No deviation.

**4.4 TEST SETUP**



**4.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**4.6 TEST RESULTS**

Please refer to the Appendix D.

## 5. MAXIMUM OUTPUT POWER

### 5.1 LIMIT

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

### 5.2 TEST PROCEDURE

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

Spectrum Parameters	Setting
Span Frequency	At least 1.5 times the OBW
RBW	1% to 5% of the OBW, not to exceed 1 MHz
VBW	$\geq 3 \times \text{RBW}$
Detector	RMS
Trace	Max Hold
Sweep Time	$\leq (\text{number of points in sweep}) \times T$ (Note)

Note: Where T is defined in 11.6 of ANSI C63.10-2013.

### 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. CONDUCTED SPURIOUS EMISSION

### 6.1 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.

### 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
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 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 F

**7. POWER SPECTRAL DENSITY**

**7.1 LIMIT**

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

**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 Frequency	2 MHz (1 Mbps) / 4 MHz (2 Mbps)
RBW	3 kHz
VBW	10 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. MEASUREMENT INSTRUMENTS LIST**

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	Mar. 12, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400088	Feb. 2, 2025
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1	N/A	N/A
4	Pre-Amplifier	emci	EMC9135	980401	Feb. 2, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	emci	VULB 9168	1467	Mar. 12, 2025
2	Pre-Amplifier	emci	EMC9135	980401	Feb. 2, 2025
3	MXE EMI Receiver	Keysight	N9038A	MY56400088	Feb. 2, 2025
4	Test Cable	emci	EMC104-SM-SM-7 000	181020	May 21, 2024
5	Test Cable	emci	EMC104-SM-SM-2 500	170618	May 21, 2024
6	Test Cable	emci	RWP50-4.6A-SMS M-1M	20200928 002	May 21, 2024
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	BBHA 9120D	9120D-1817	Mar. 12, 2025
2	Pre-Amplifier	emci	EMC051845SE	980725	Jul. 21, 2024
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Feb. 2, 2025
4	Test Cable	emci	EMC104-SM-SM-7000	181020	May. 21, 2024
5	Test Cable	emci	EMC104-SM-SM-2500	170618	May. 21, 2024
6	Test Cable	emci	RWP50-4.6A-SMS M-1M	20200928 002	May. 21, 2024
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1	N/A	N/A

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Jul. 21, 2024
2	BTL Conducted Test20221221	BTL	1251394929	N/A	N/A

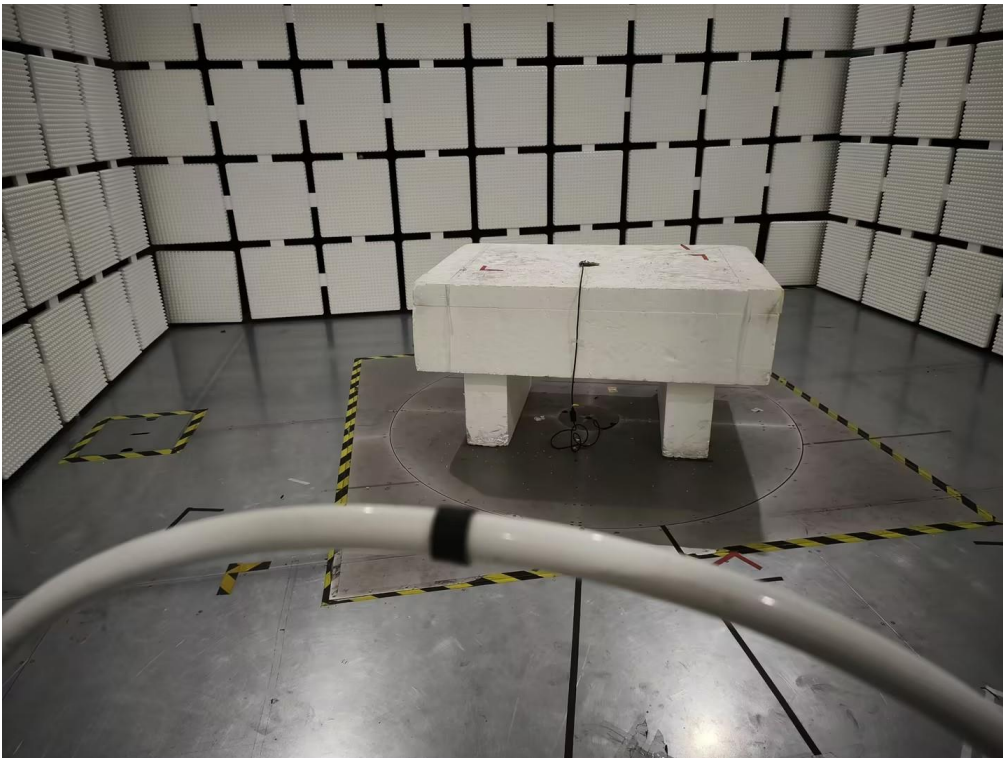
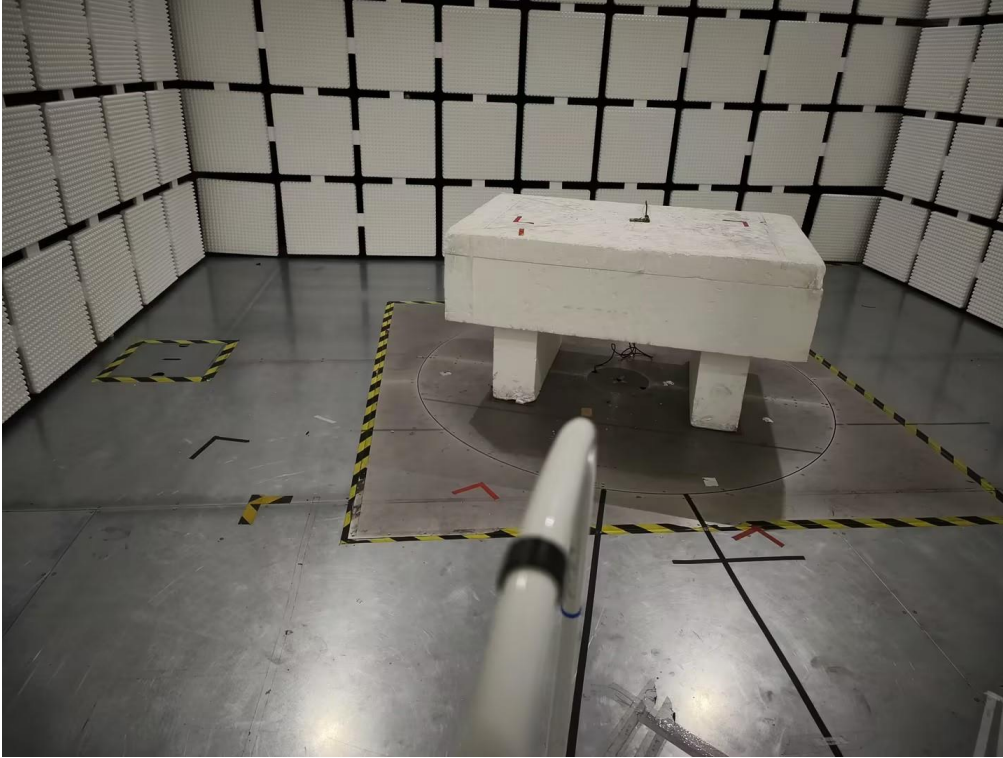
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Jul. 21, 2024
2	BTL Conducted Test20221221	BTL	1251394929	N/A	N/A

Antenna Conducted Spurious Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Jul. 21, 2024
2	BTL Conducted Test20221221	BTL	1251394929	N/A	N/A

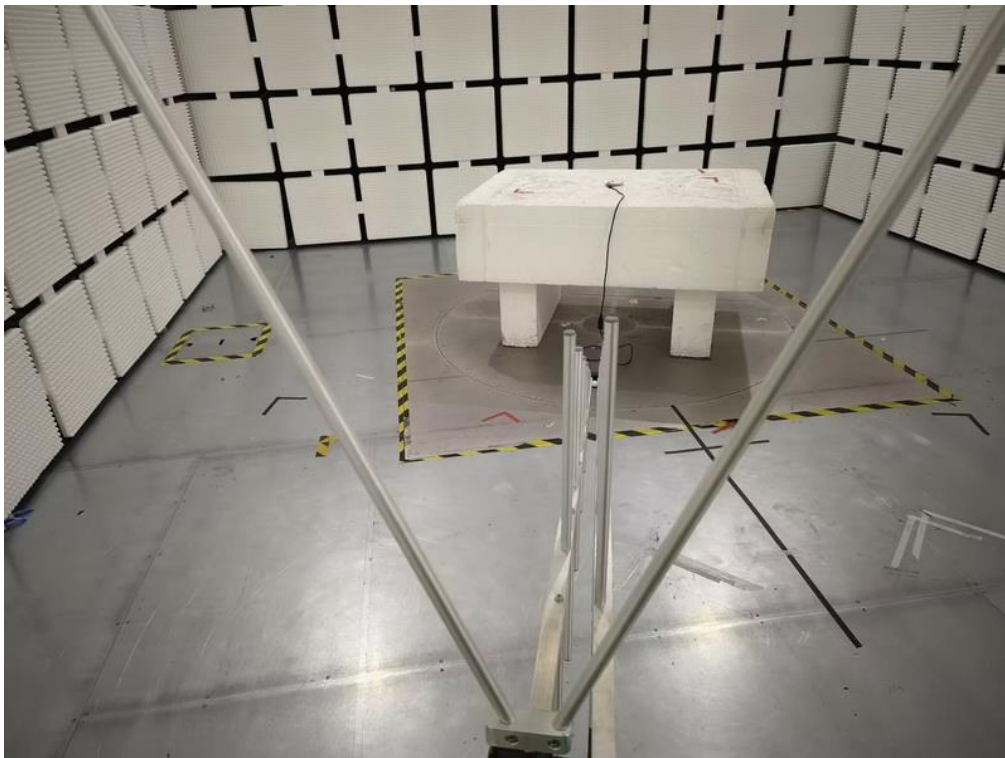
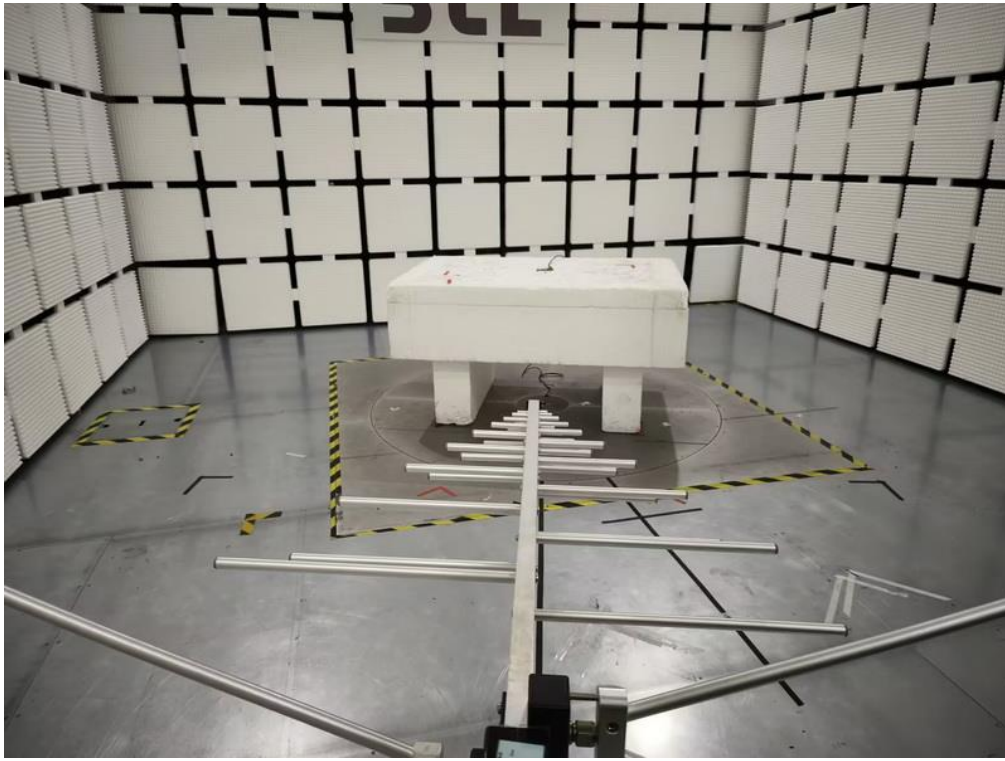
Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Jul. 21, 2024
2	BTL Conducted Test20221221	BTL	1251394929	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

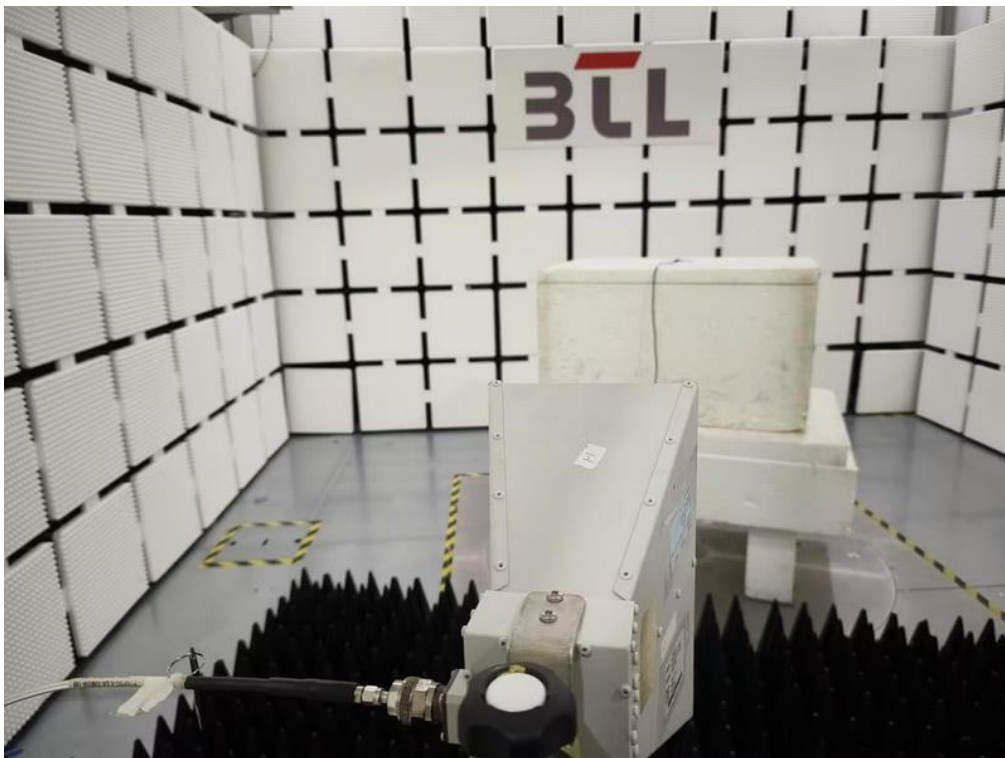
**9. EUT TEST PHOTO****Radiated Emissions Test Photos****9 kHz to 30 MHz**

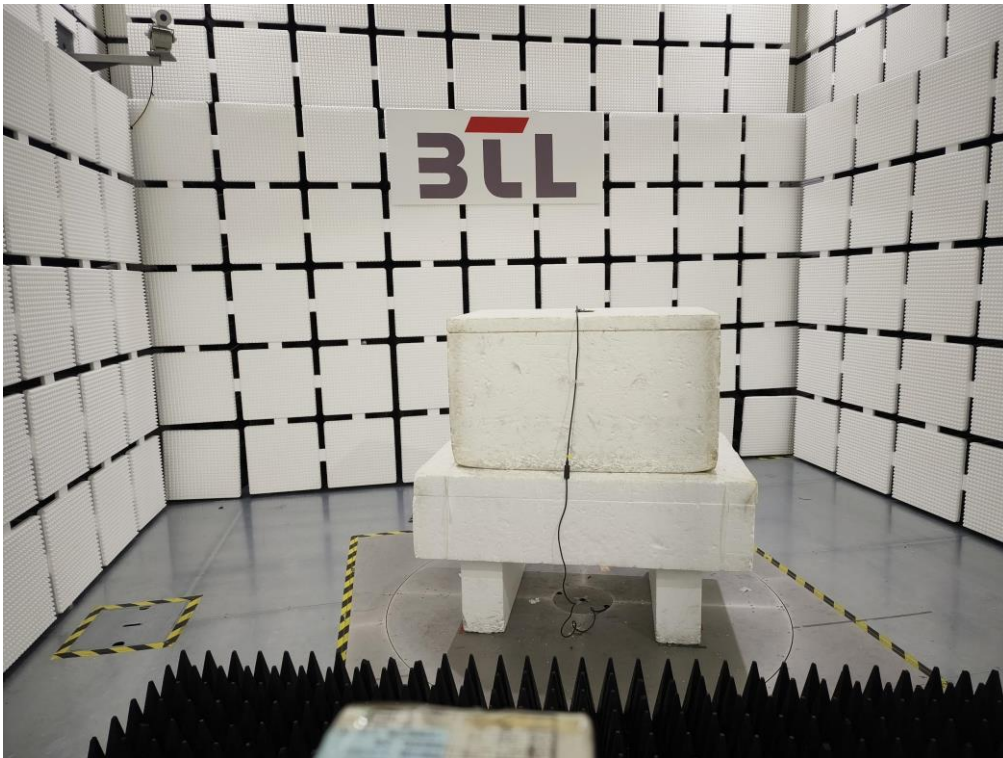
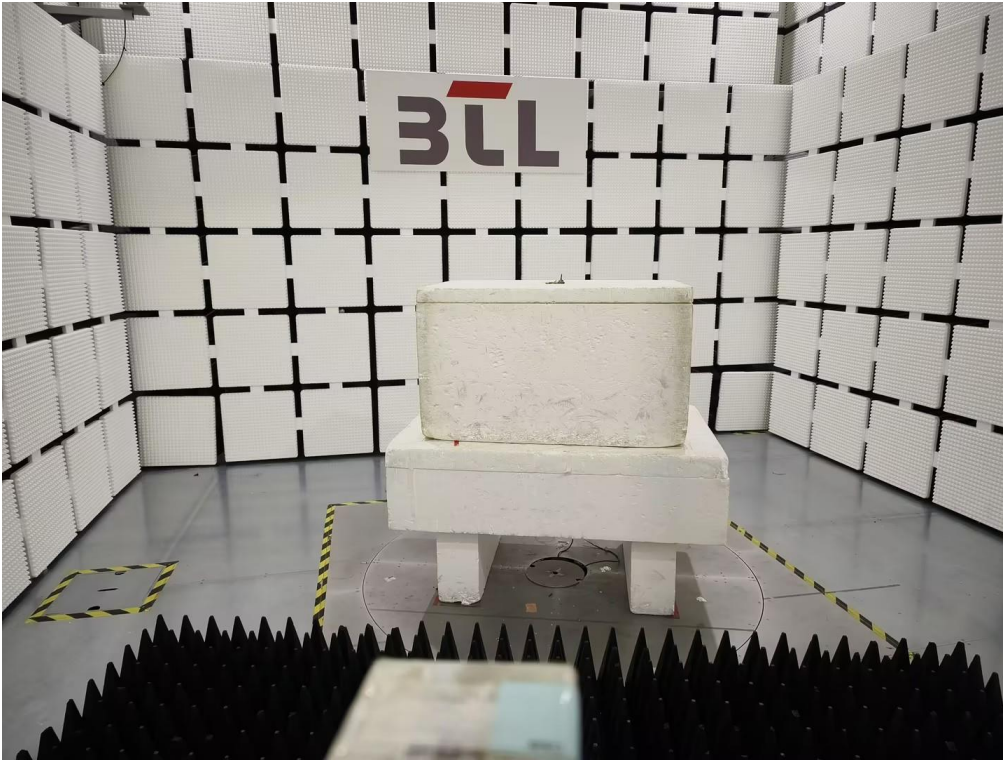


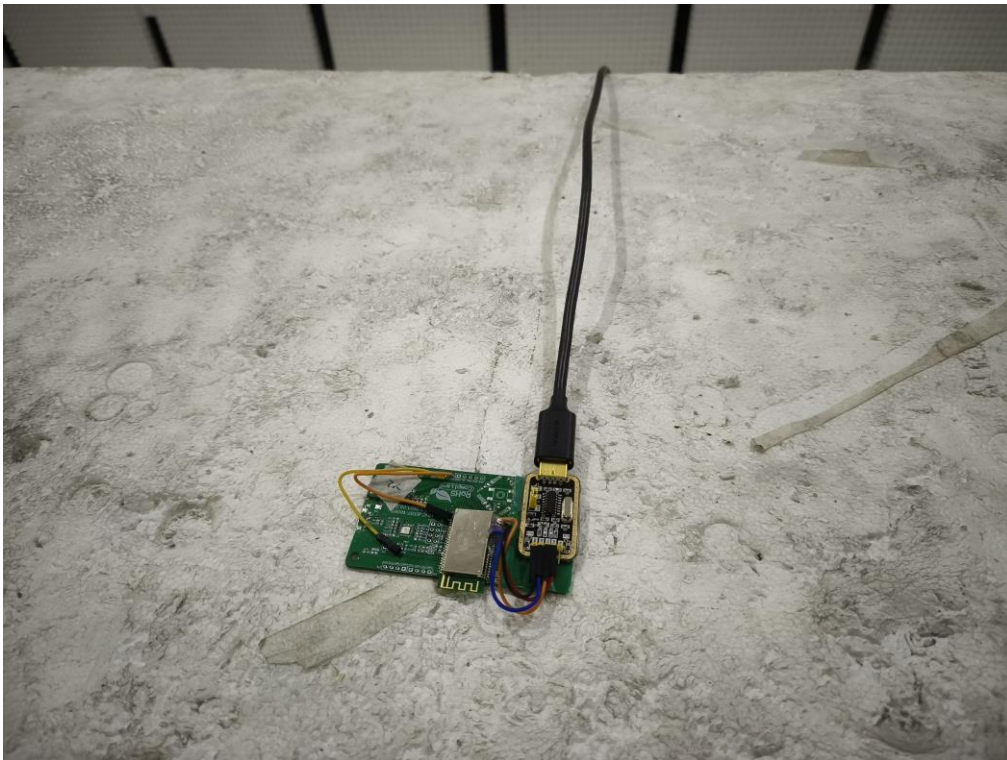
**Radiated Emissions Test Photos****30 MHz to 1000 MHz**

**Radiated Emissions Test Photos**

**Above 1 GHz(1-18G)**

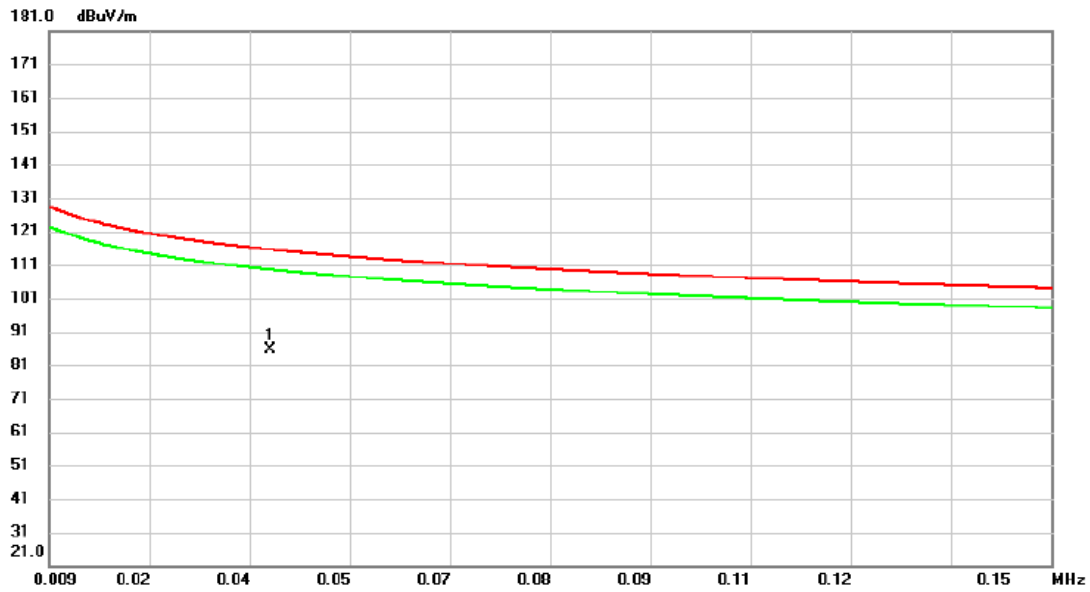


**Radiated Emissions Test Photos****Above 1 GHz(18-26.5G)**

**Close-up Test Photos**

**APPENDIX A - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Vertical
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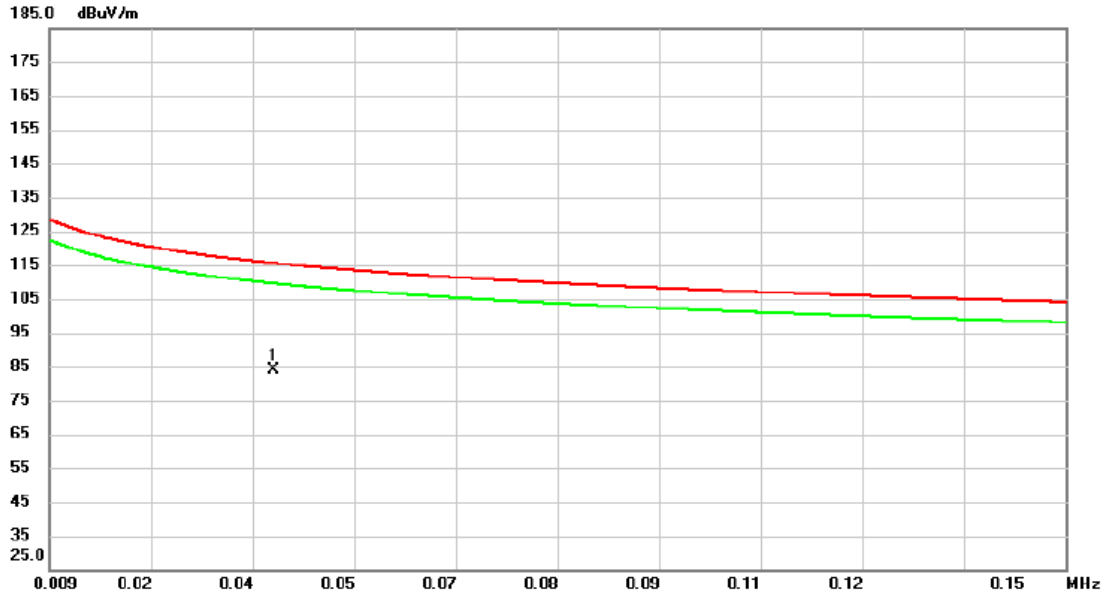


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0401	20.51	65.12	85.63	115.54	-29.91	peak	

**REMARKS:**

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

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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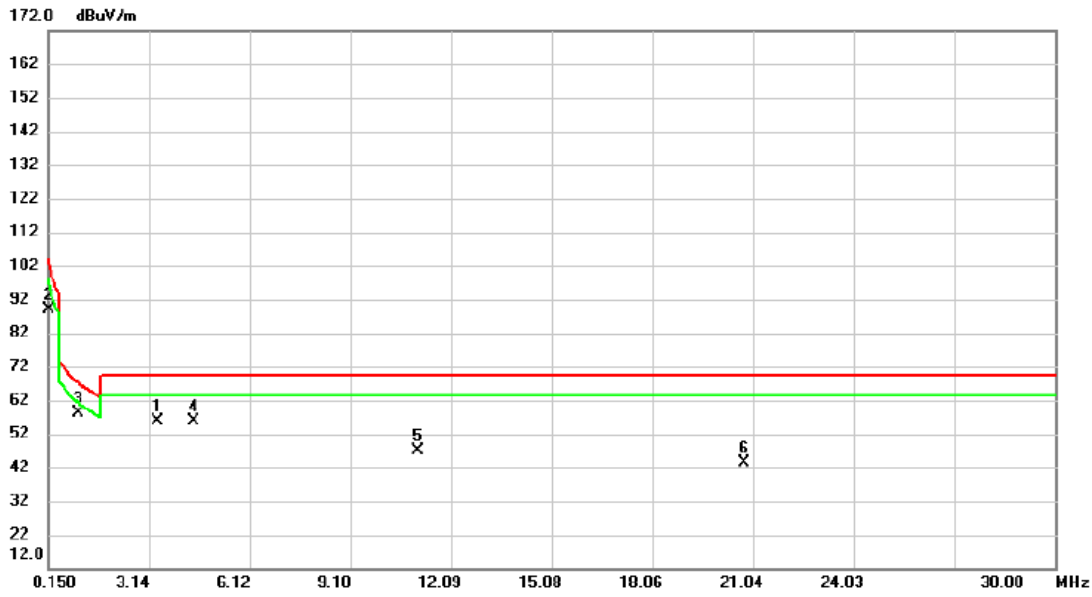


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0401	18.88	65.12	84.00	115.54	-31.54	peak	

**REMARKS:**

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

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Vertical
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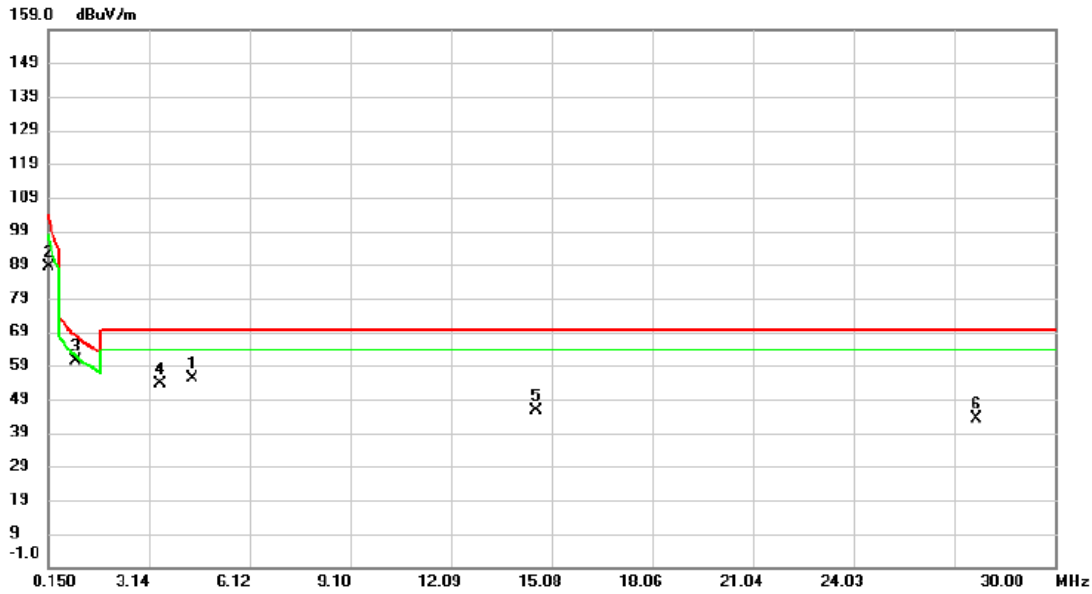
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		3.3738	19.34	36.62	55.96	69.54	-13.58	peak	
2		0.1500	34.10	54.87	88.97	104.09	-15.12	peak	
3	*	1.0455	17.69	40.32	58.01	67.22	-9.21	peak	
4		4.4484	19.49	36.16	55.65	69.54	-13.89	peak	
5		11.1050	11.09	35.82	46.91	69.54	-22.63	peak	
6		20.7762	9.50	34.06	43.56	69.54	-25.98	peak	

**REMARKS:**

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



Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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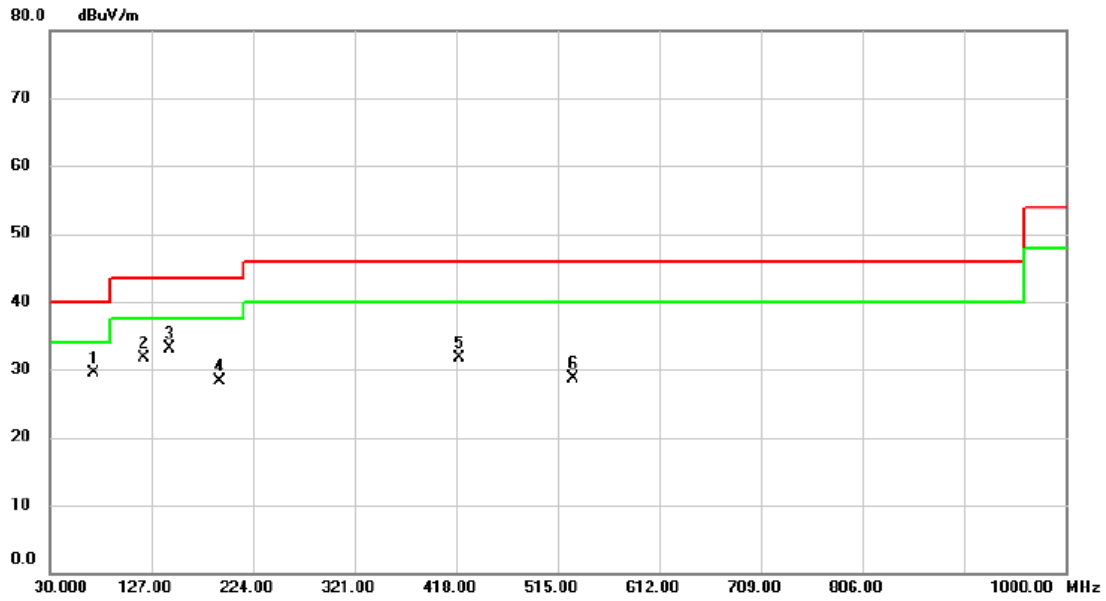
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4.4185	18.95	36.15	55.10	69.54	-14.44	peak	
2		0.1500	33.42	54.87	88.29	104.09	-15.80	peak	
3	*	0.9560	19.53	40.69	60.22	68.00	-7.78	peak	
4		3.4632	17.23	36.54	53.77	69.54	-15.77	peak	
5		14.6272	10.00	35.56	45.56	69.54	-23.98	peak	
6		27.6717	11.81	31.30	43.11	69.54	-26.43	peak	

**REMARKS:**

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

**APPENDIX B - RADIATED EMISSION - 30 MHZ TO 1000 MHZ**

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Vertical
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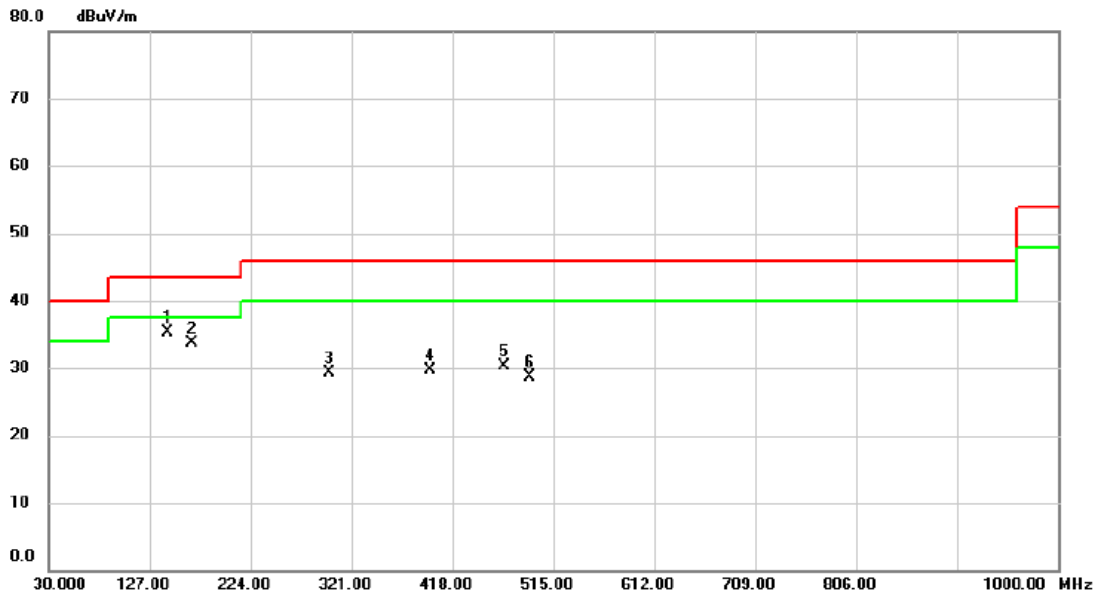


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	72.1950	48.82	-19.34	29.48	40.00	-10.52	peak	
2	120.2100	50.50	-18.82	31.68	43.50	-11.82	peak	
3 *	143.9750	49.67	-16.64	33.03	43.50	-10.47	peak	
4	191.9900	47.06	-18.80	28.26	43.50	-15.24	peak	
5	421.3950	44.15	-12.47	31.68	46.00	-14.32	peak	
6	530.0350	39.30	-10.50	28.80	46.00	-17.20	peak	

**REMARKS:**

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

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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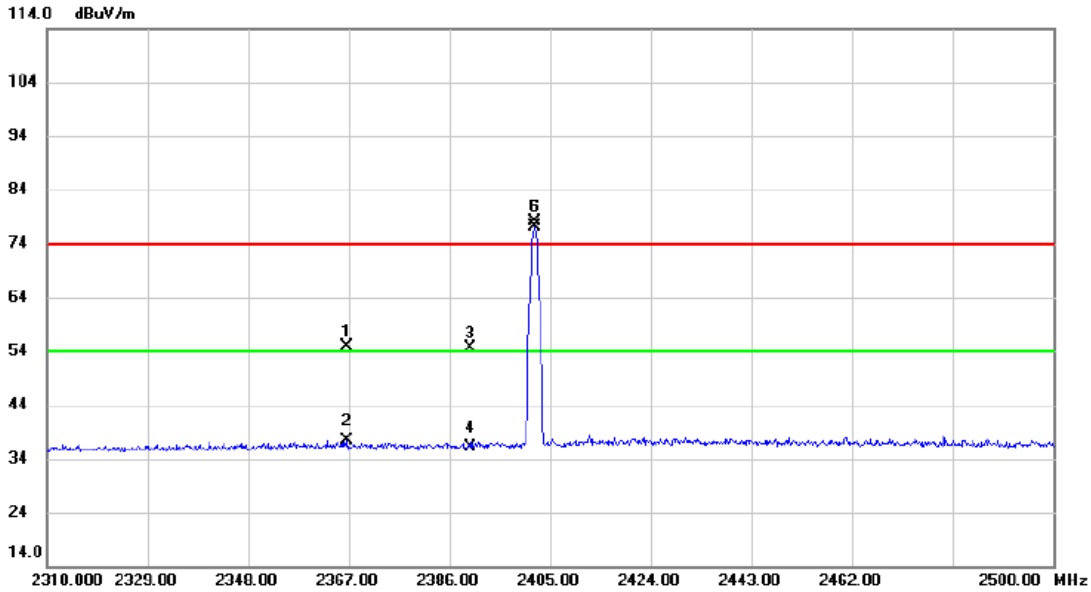
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	143.9750	52.00	-16.64	35.36	43.50	-8.14	peak	
2		168.2250	50.18	-16.47	33.71	43.50	-9.79	peak	
3		300.1450	44.70	-15.41	29.29	46.00	-16.71	peak	
4		396.1750	42.79	-13.03	29.76	46.00	-16.24	peak	
5		467.9550	41.67	-11.29	30.38	46.00	-15.62	peak	
6		492.2050	39.80	-11.03	28.77	46.00	-17.23	peak	

**REMARKS:**

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

## **APPENDIX C - RADIATED EMISSION - ABOVE 1000 MHZ**

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Vertical
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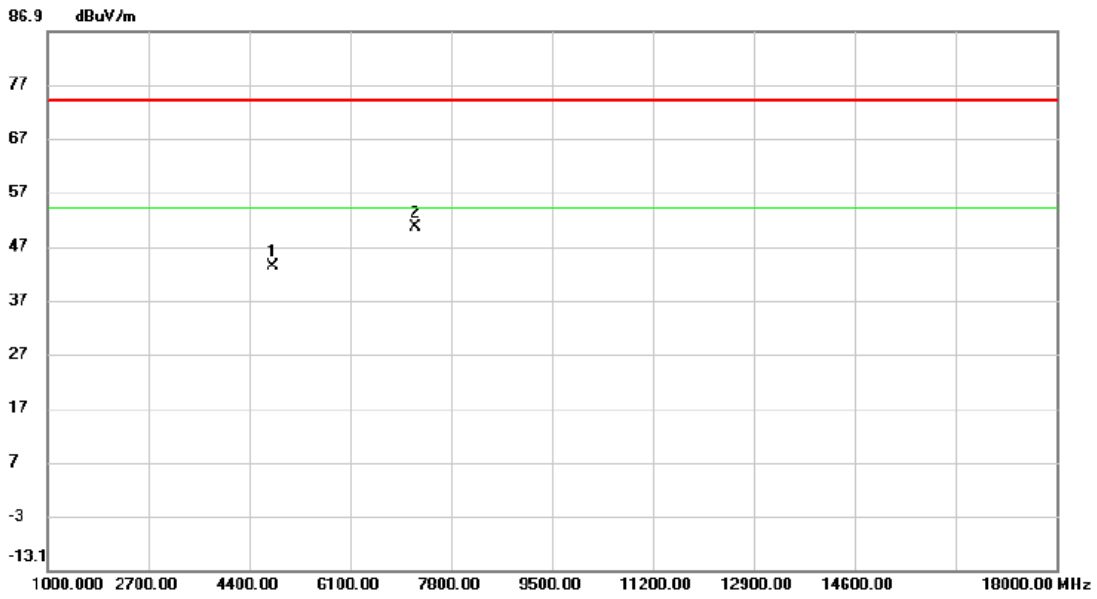


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		2366.620	23.23	31.67	54.90	74.00	-19.10	peak			
2		2366.620	5.72	31.67	37.39	54.00	-16.61	AVG			
3		2390.000	22.83	31.77	54.60	74.00	-19.40	peak			
4		2390.000	4.35	31.77	36.12	54.00	-17.88	AVG			
5	X	2402.150	46.36	31.81	78.17	74.00	4.17	peak			no limit
6	*	2402.150	45.21	31.81	77.02	54.00	23.02	AVG			no limit

**REMARKS:**

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

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Vertical
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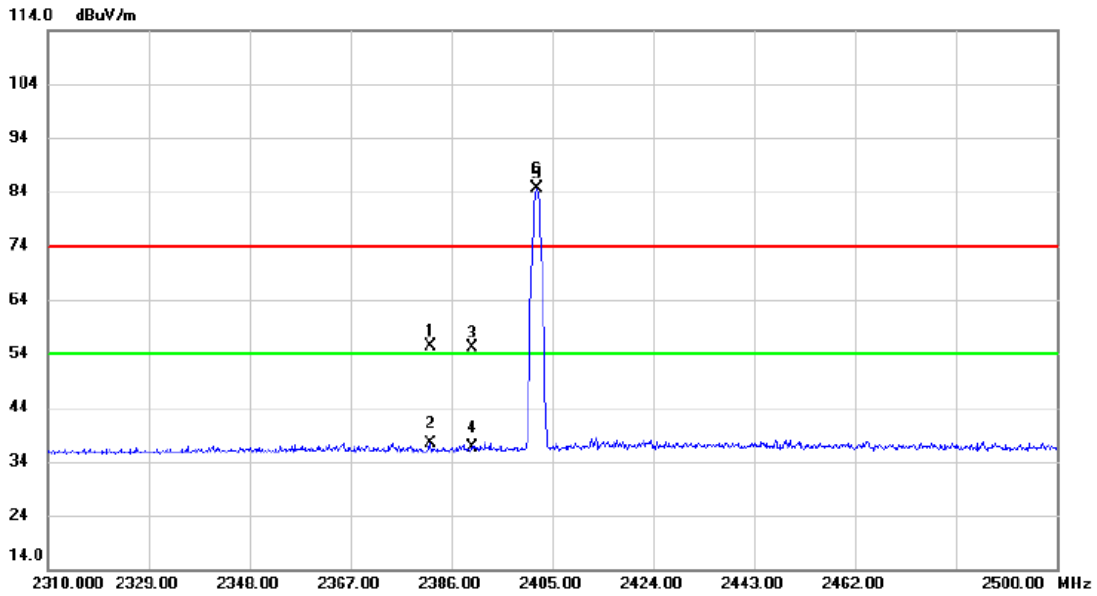


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4804.600	59.43	-16.25	43.18	74.00	-30.82	peak	
2	*	7207.550	62.02	-11.43	50.59	74.00	-23.41	peak	

**REMARKS:**

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

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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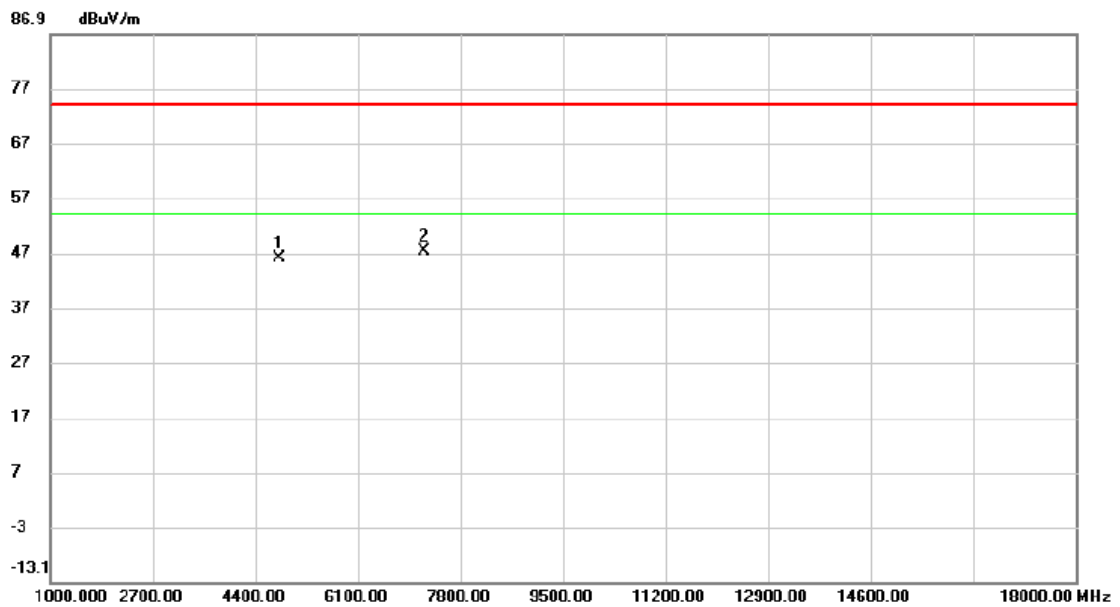


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1		2382.010	23.61	31.73	55.34	74.00	-18.66	peak		
2		2382.010	5.72	31.73	37.45	54.00	-16.55	AVG		
3		2390.000	23.47	31.77	55.24	74.00	-18.76	peak		
4		2390.000	4.90	31.77	36.67	54.00	-17.33	AVG		
5	X	2402.055	52.84	31.81	84.65	74.00	10.65	peak		no limit
6	*	2402.055	52.78	31.81	84.59	54.00	30.59	AVG		no limit

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



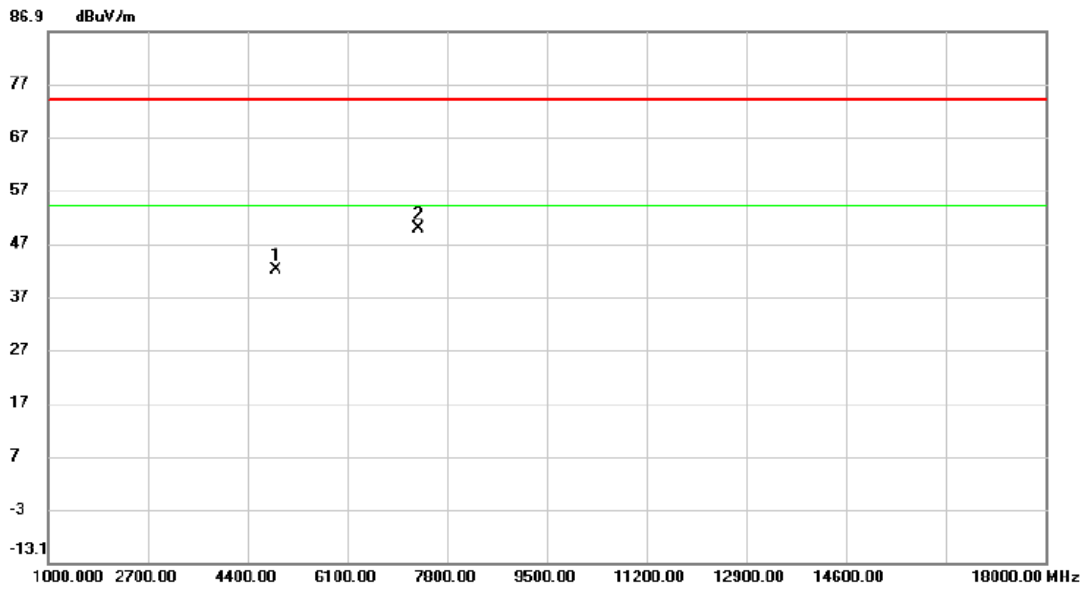
Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4804.600	62.39	-16.25	46.14	74.00	-27.86	peak	
2 *	7205.850	58.77	-11.44	47.33	74.00	-26.67	peak	

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

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Vertical
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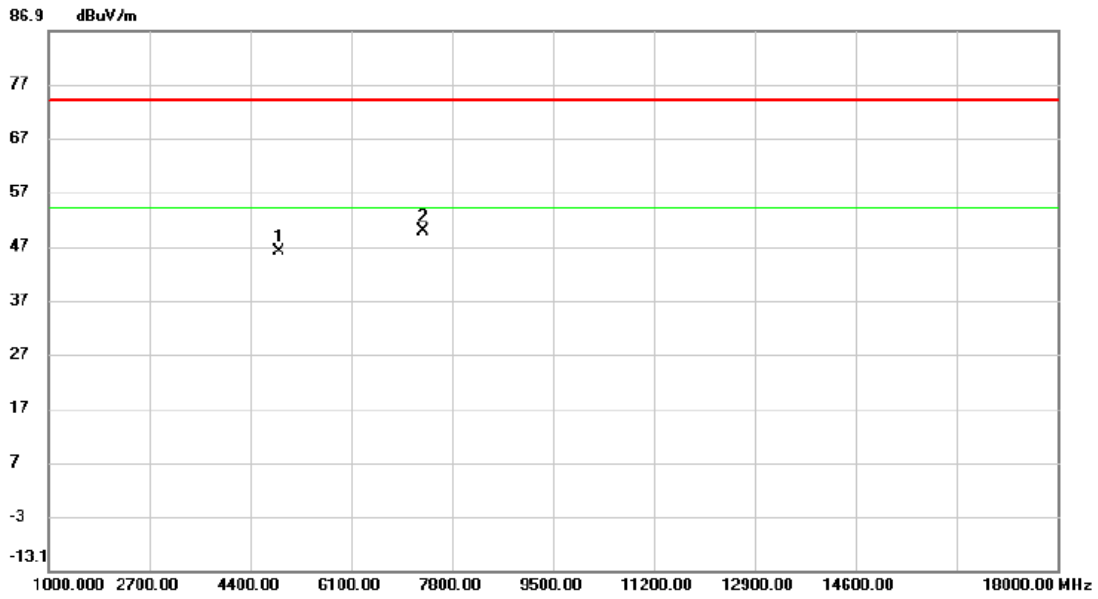


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4880.250	58.03	-16.08	41.95	74.00	-32.05	peak	
2	*	7321.450	60.79	-11.10	49.69	74.00	-24.31	peak	

**REMARKS:**

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

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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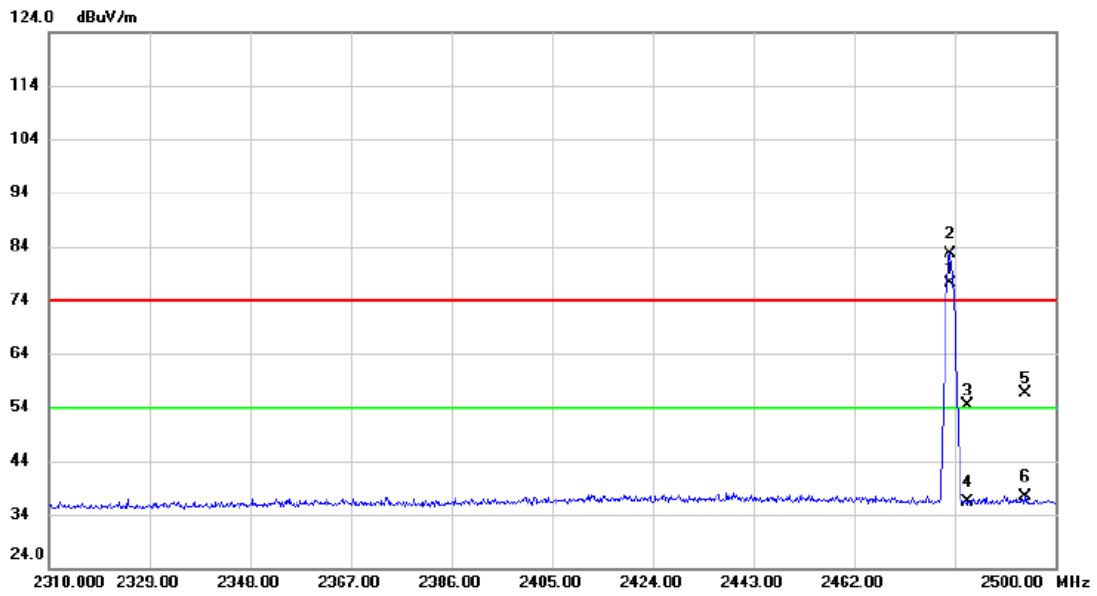


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4880.250	62.02	-16.08	45.94	74.00	-28.06	peak	
2	*	7321.450	60.92	-11.10	49.82	74.00	-24.18	peak	

**REMARKS:**

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

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Vertical
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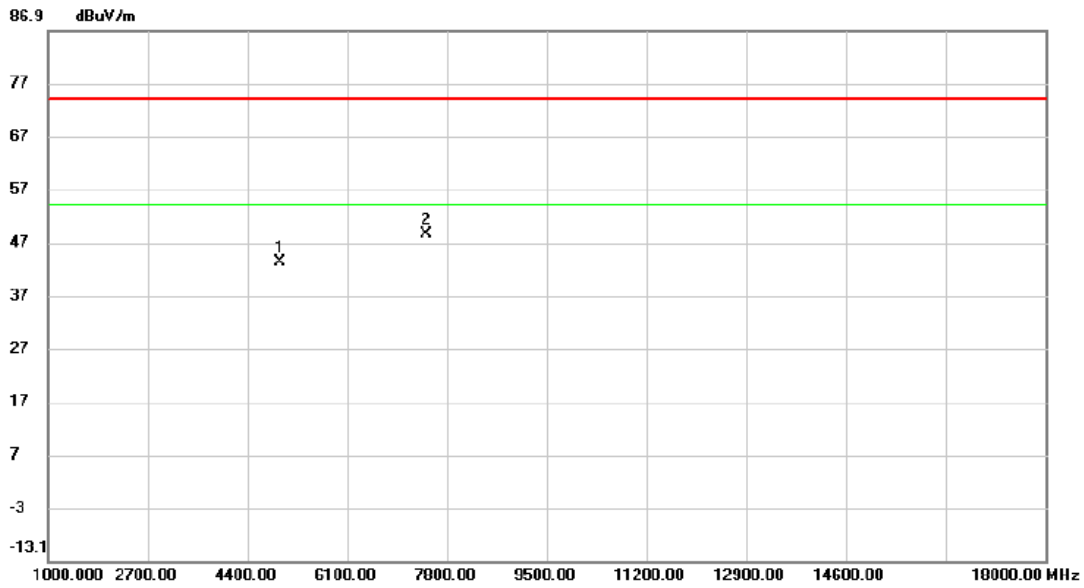


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	X	2480.145	44.95	32.13	77.08	74.00	3.08	peak			no limit
2	*	2480.145	50.45	32.13	82.58	54.00	28.58	AVG			no limit
3		2483.500	22.34	32.15	54.49	74.00	-19.51	peak			
4		2483.500	4.31	32.15	36.46	54.00	-17.54	AVG			
5		2494.205	24.34	32.18	56.52	74.00	-17.48	peak			
6		2494.205	5.25	32.18	37.43	54.00	-16.57	AVG			

**REMARKS:**

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

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Vertical
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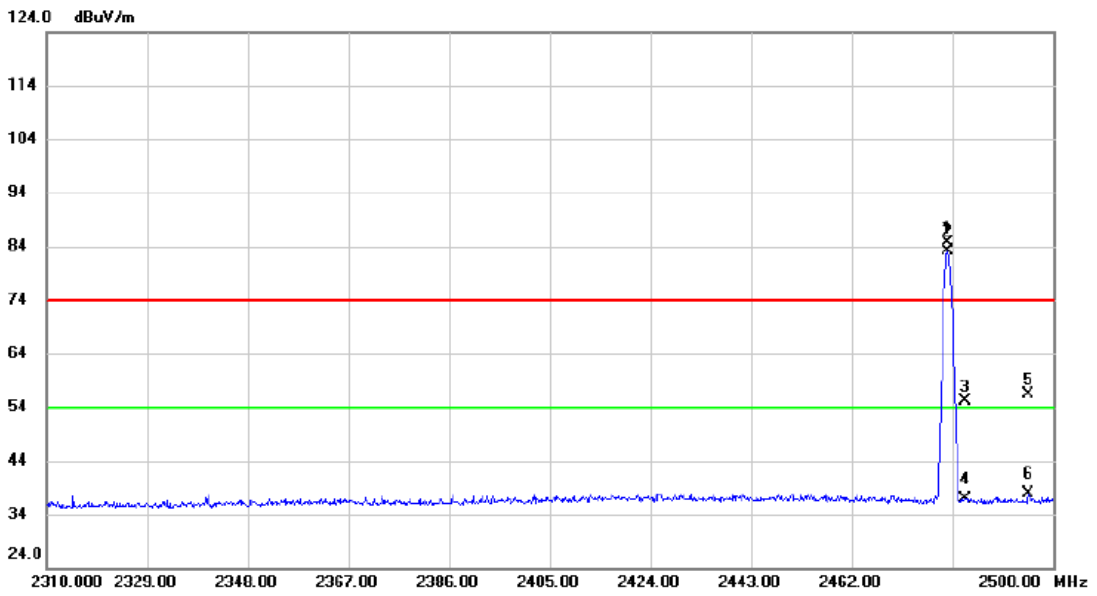


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4960.150	59.15	-15.90	43.25	74.00	-30.75	peak	
2	*	7441.300	59.32	-10.76	48.56	74.00	-25.44	peak	

**REMARKS:**

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

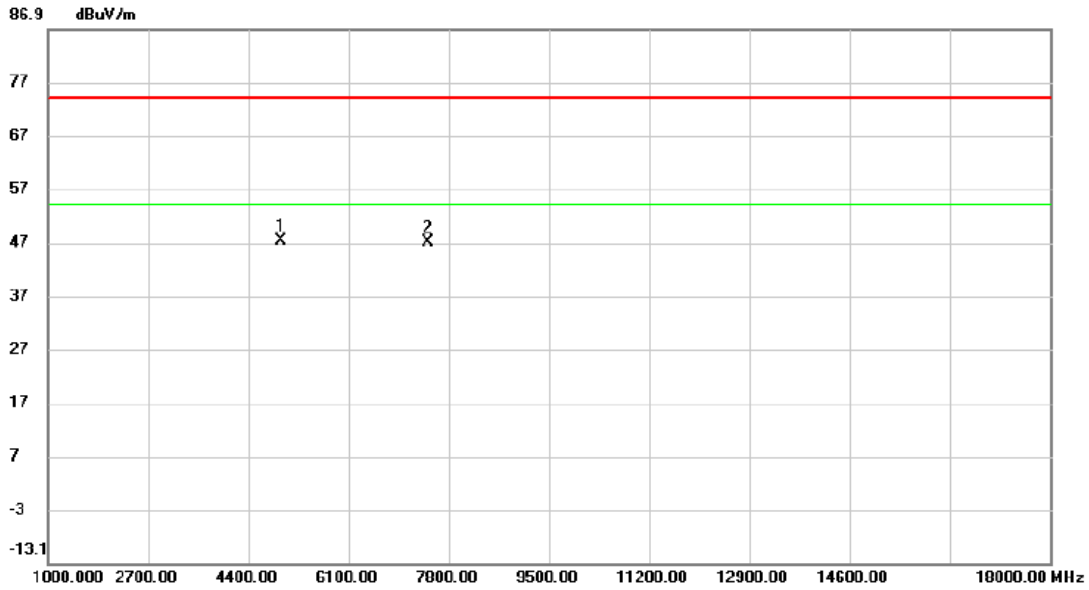
Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		cm	degree	
1	X	2480.145	52.53	32.13	84.66	74.00	10.66	peak			no limit
2	*	2480.145	51.12	32.13	83.25	54.00	29.25	AVG			no limit
3		2483.500	23.02	32.15	55.17	74.00	-18.83	peak			
4		2483.500	4.80	32.15	36.95	54.00	-17.05	AVG			
5		2495.345	24.25	32.19	56.44	74.00	-17.56	peak			
6		2495.345	5.75	32.19	37.94	54.00	-16.06	AVG			

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

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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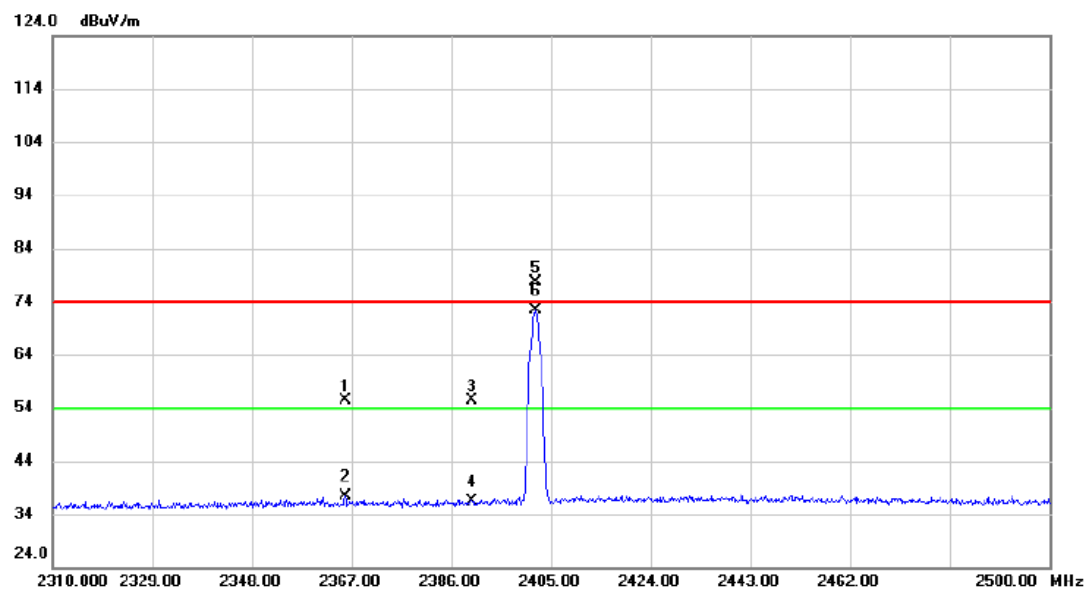


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV		dBuV/m	dBuV/m	dB		
1	*	4960.150	63.29	-15.90	47.39	74.00	-26.61	peak	
2		7441.300	57.72	-10.76	46.96	74.00	-27.04	peak	

**REMARKS:**

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

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Vertical
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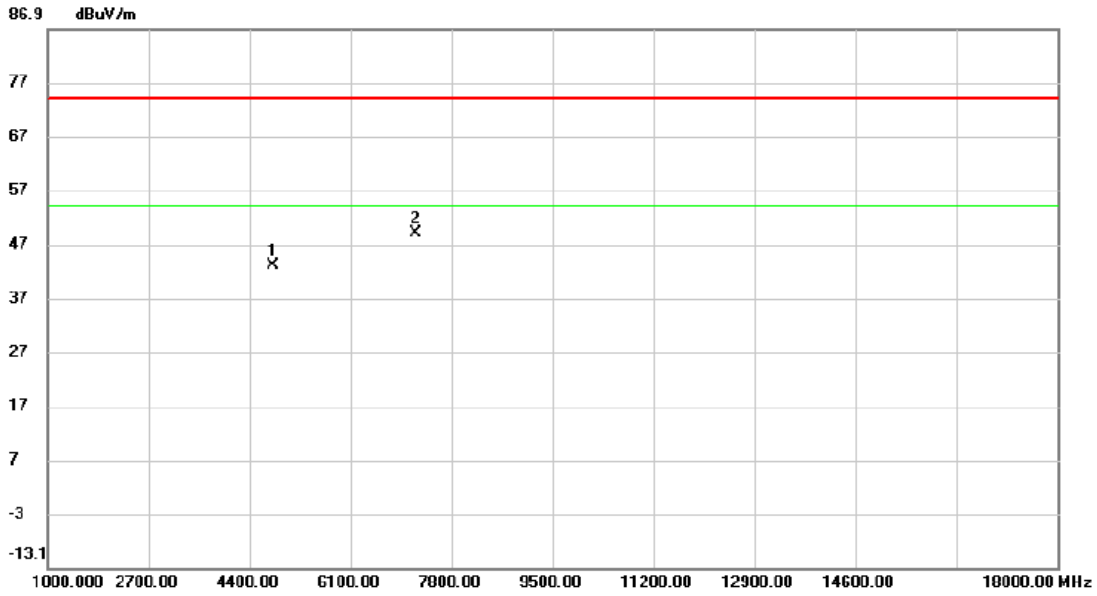


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	2365.955	23.82	31.67	55.49	74.00	-18.51	peak			
2	2365.955	5.60	31.67	37.27	54.00	-16.73	AVG			
3	2390.000	23.70	31.77	55.47	74.00	-18.53	peak			
4	2390.000	4.62	31.77	36.39	54.00	-17.61	AVG			
5 X	2402.055	45.86	31.81	77.67	74.00	3.67	peak			no limit
6 *	2402.055	40.66	31.81	72.47	54.00	18.47	AVG			no limit

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



Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Vertical
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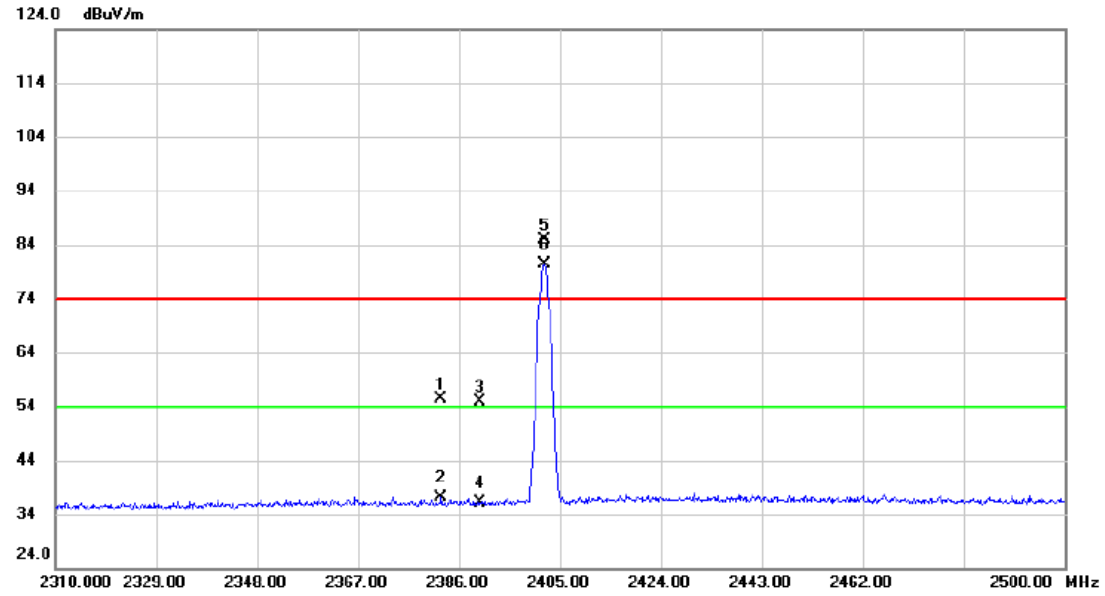


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4804.600	59.22	-16.25	42.97	74.00	-31.03	peak	
2	*	7206.700	60.58	-11.44	49.14	74.00	-24.86	peak	

**REMARKS:**

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

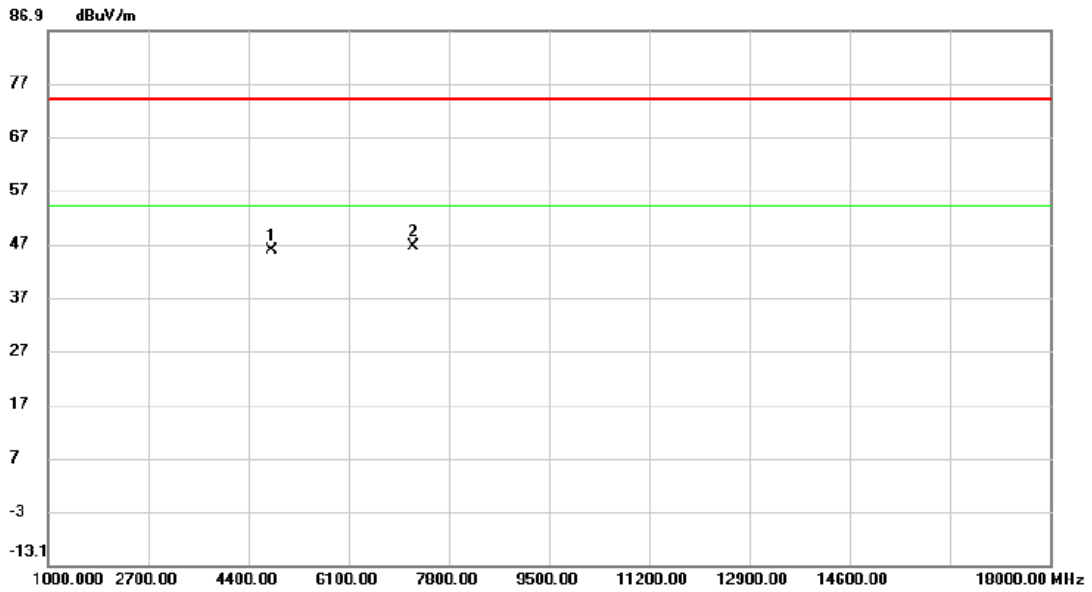
Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2382.580	23.56	31.74	55.30	74.00	-18.70	peak			
2		2382.580	5.51	31.74	37.25	54.00	-16.75	AVG			
3		2390.000	23.11	31.77	54.88	74.00	-19.12	peak			
4		2390.000	4.32	31.77	36.09	54.00	-17.91	AVG			
5	X	2402.150	53.14	31.81	84.95	74.00	10.95	peak			no limit
6	*	2402.150	48.62	31.81	80.43	54.00	26.43	AVG			no limit

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

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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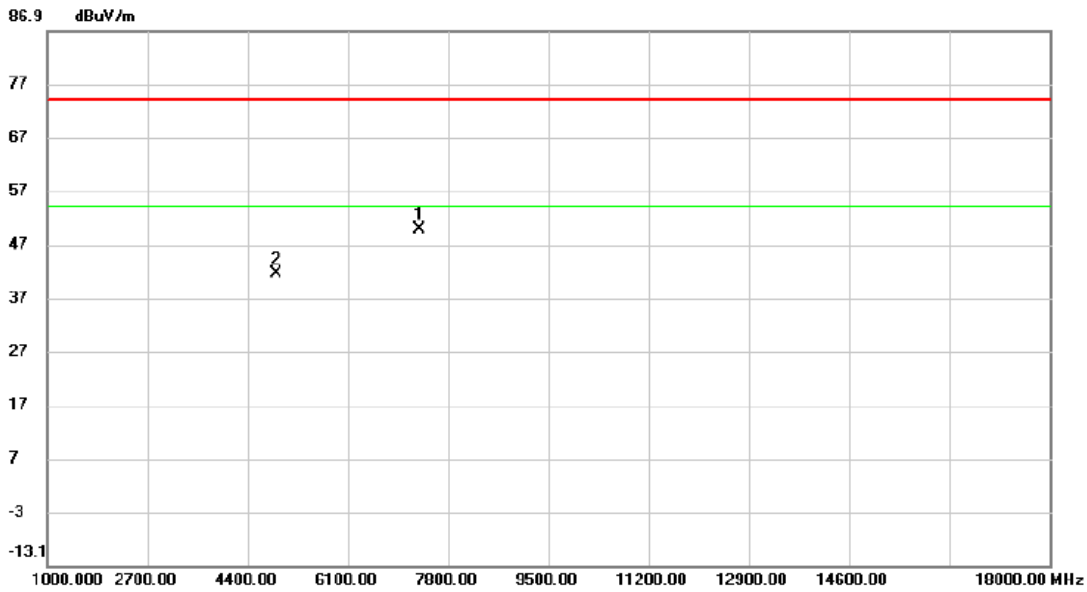


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4804.600	61.92	-16.25	45.67	74.00	-28.33	peak	
2	*	7205.850	57.92	-11.44	46.48	74.00	-27.52	peak	

**REMARKS:**

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

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Vertical
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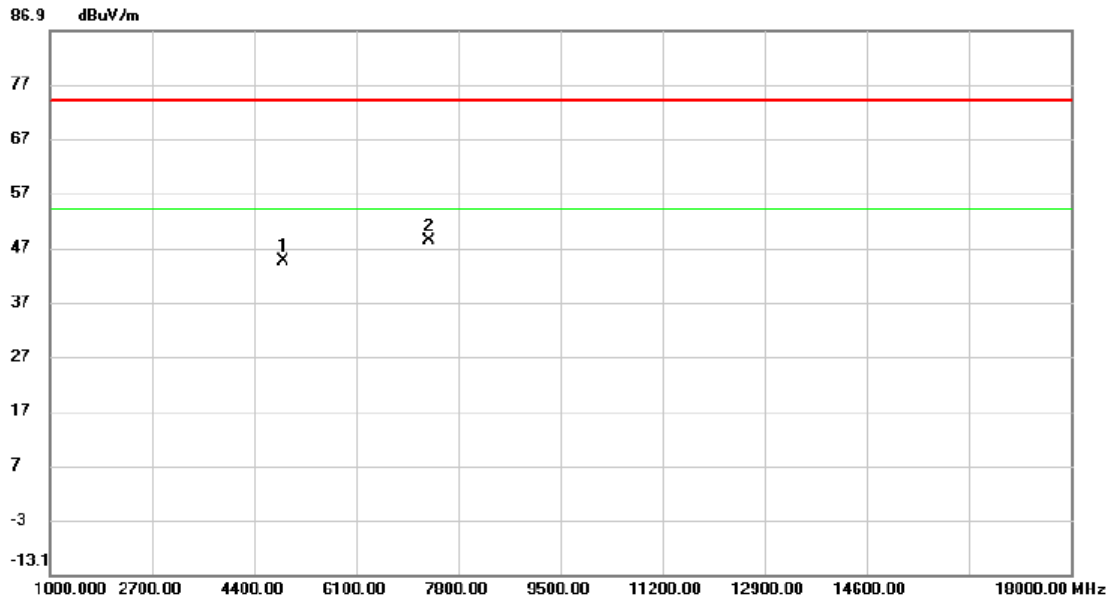


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	7321.450	60.79	-11.10	49.69	74.00	-24.31	peak	
2		4881.950	57.53	-16.08	41.45	74.00	-32.55	peak	

**REMARKS:**

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

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Horizontal
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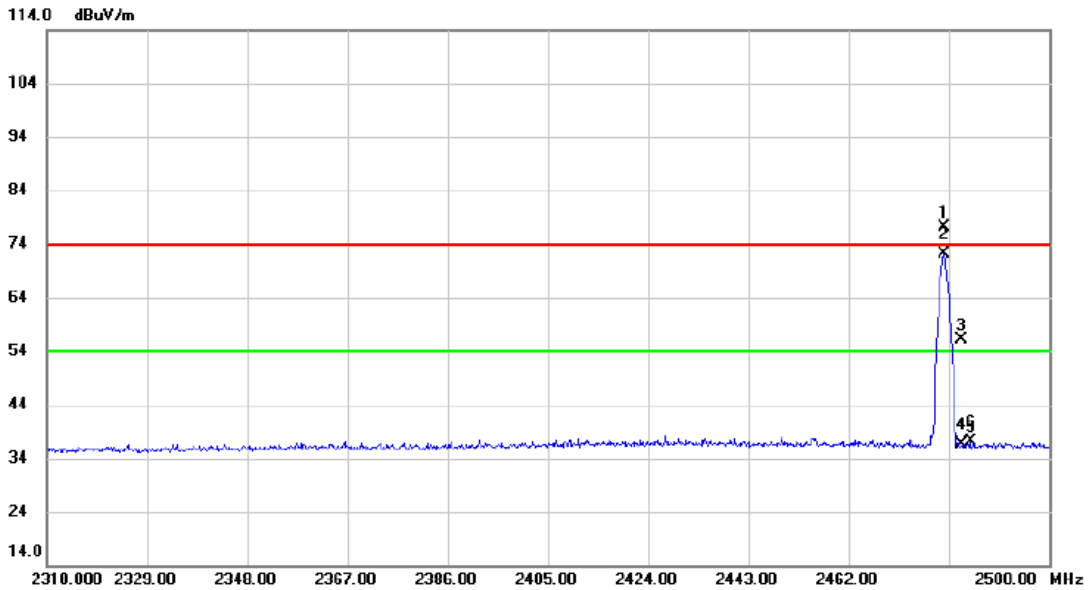


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4881.100	60.61	-16.08	44.53	74.00	-29.47	peak	
2	*	7318.900	59.49	-11.11	48.38	74.00	-25.62	peak	

**REMARKS:**

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

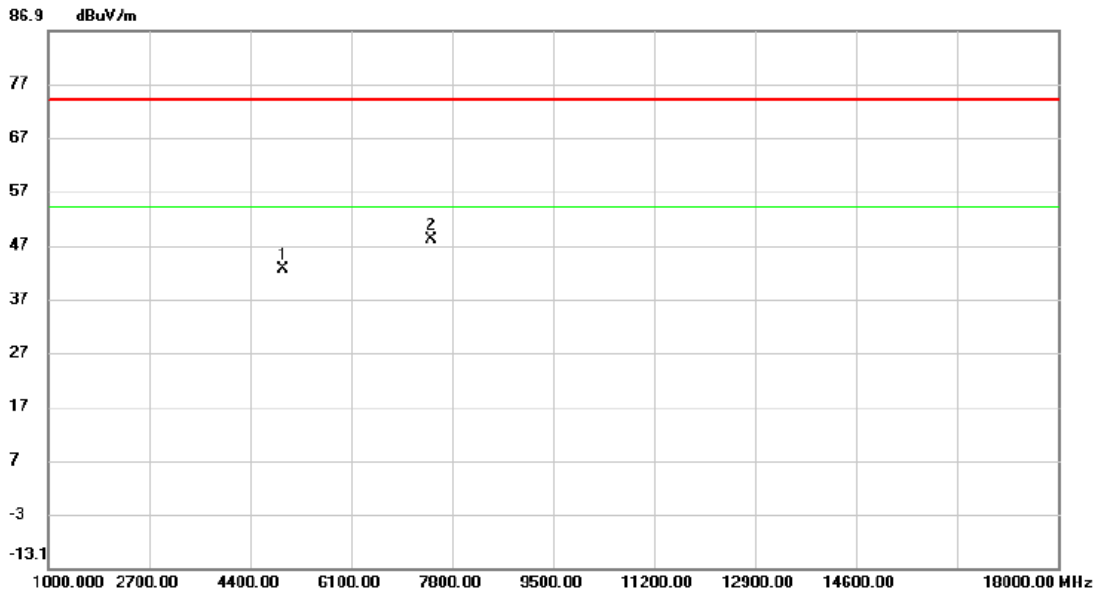
Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	X	2480.050	44.97	32.13	77.10	74.00	3.10	peak			no limit
2	*	2480.050	39.91	32.13	72.04	54.00	18.04	AVG			no limit
3		2483.500	23.92	32.15	56.07	74.00	-17.93	peak			
4		2483.500	4.43	32.15	36.58	54.00	-17.42	AVG			
5		2485.085	4.88	32.15	37.03	74.00	-36.97	peak			
6		2485.085	4.88	32.15	37.03	54.00	-16.97	AVG			

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

Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Vertical
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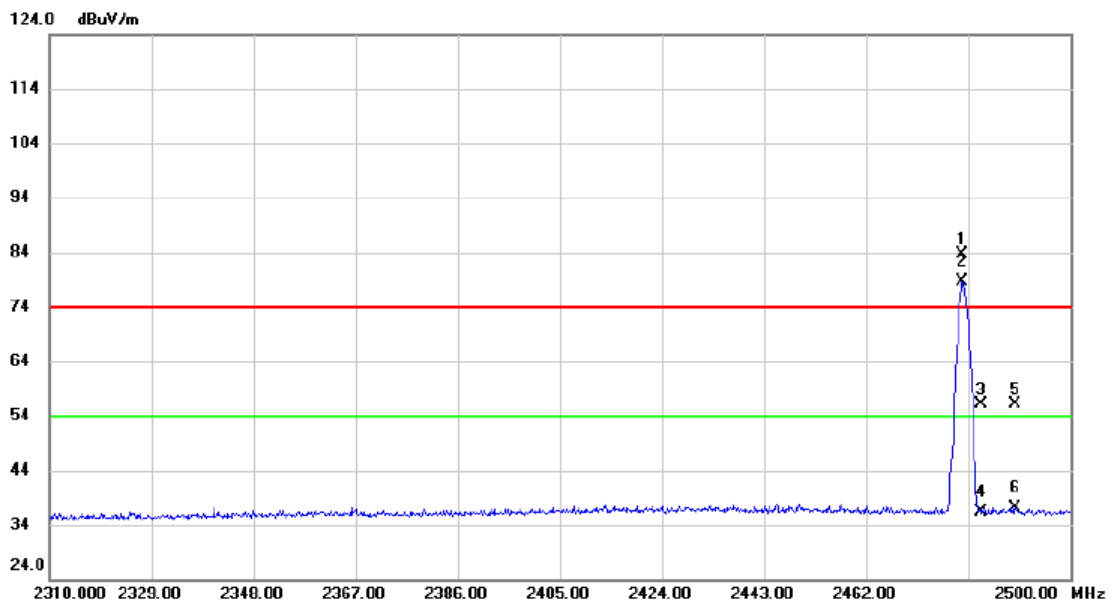


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4961.000	58.38	-15.90	42.48	74.00	-31.52	peak	
2	*	7439.600	58.83	-10.76	48.07	74.00	-25.93	peak	

**REMARKS:**

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

Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Horizontal
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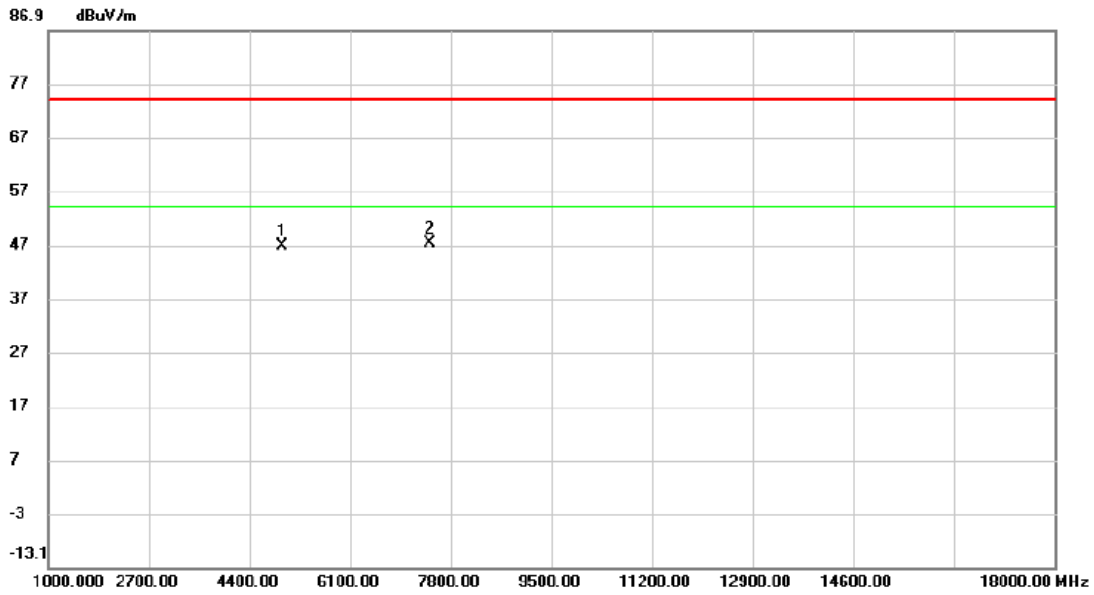
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	X	2479.955	51.59	32.13	83.72	74.00	9.72	peak			no limit
2	*	2479.955	46.58	32.13	78.71	54.00	24.71	AVG			no limit
3		2483.500	23.88	32.15	56.03	74.00	-17.97	peak			
4		2483.500	4.22	32.15	36.37	54.00	-17.63	AVG			
5		2489.835	24.03	32.17	56.20	74.00	-17.80	peak			
6		2489.835	5.08	32.17	37.25	54.00	-16.75	AVG			

**REMARKS:**

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



Test Mode	TX 2480 MHz _CH39_2Mbps	Polarization	Horizontal
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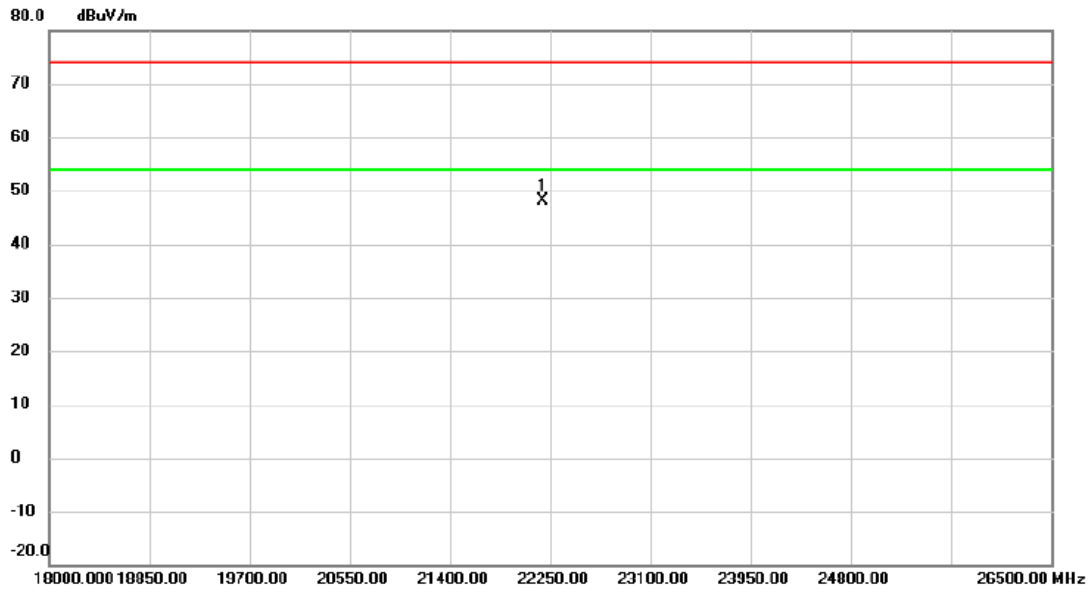


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4961.850	62.65	-15.90	46.75	74.00	-27.25	peak	
2	*	7442.150	57.95	-10.76	47.19	74.00	-26.81	peak	

**REMARKS:**

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

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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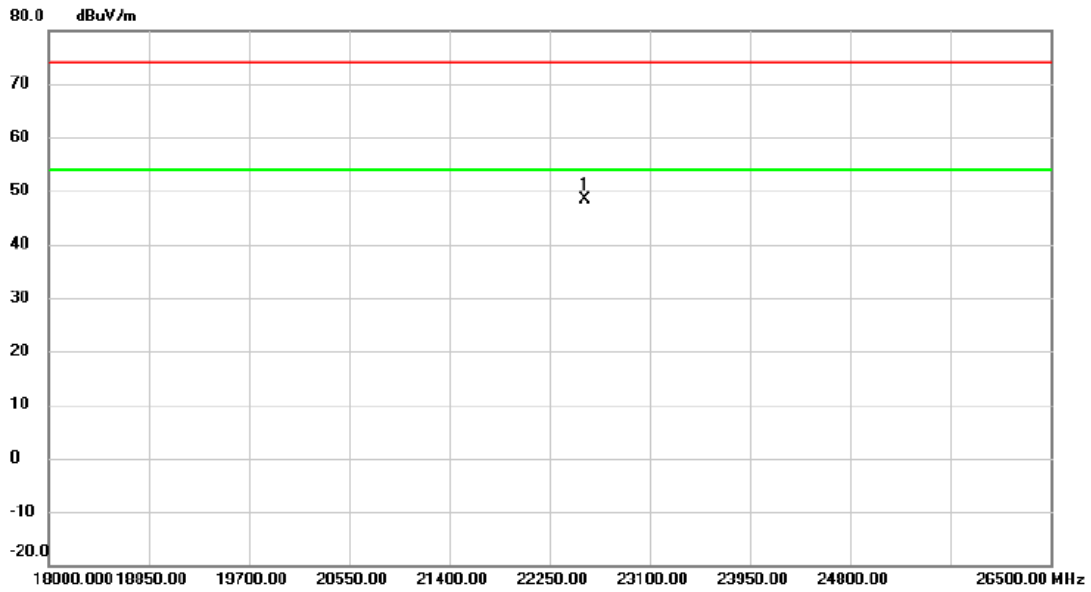


No.	Mk.	Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	*	22188.80	54.13	-5.91	48.22	74.00	-25.78	peak	

**REMARKS:**

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

Test Mode	TX 2402 MHz _CH00_2Mbps	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	22555.15	53.51	-5.21	48.30	74.00	-25.70	peak	

**REMARKS:**

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

# APPENDIX D - BANDWIDTH

Test Mode	TX Mode _1Mbps
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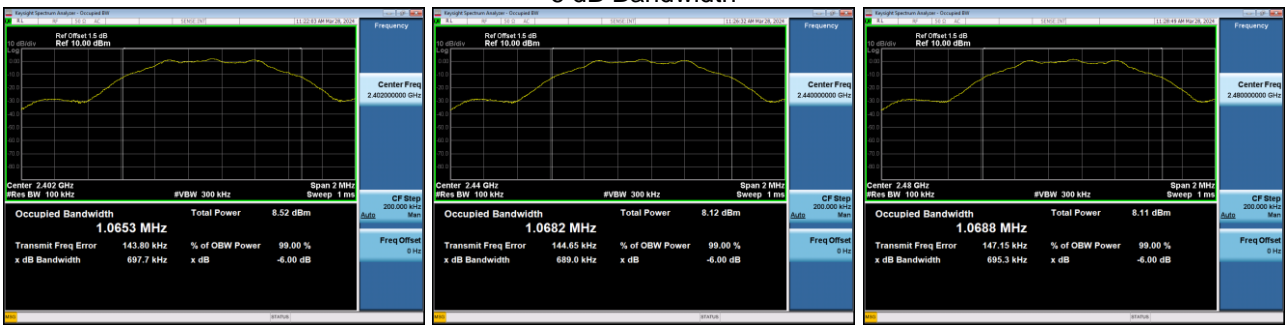
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.6977	1.0473	0.5	Pass
19	2440	0.6890	1.0513	0.5	Pass
39	2480	0.6953	1.0537	0.5	Pass

CH00

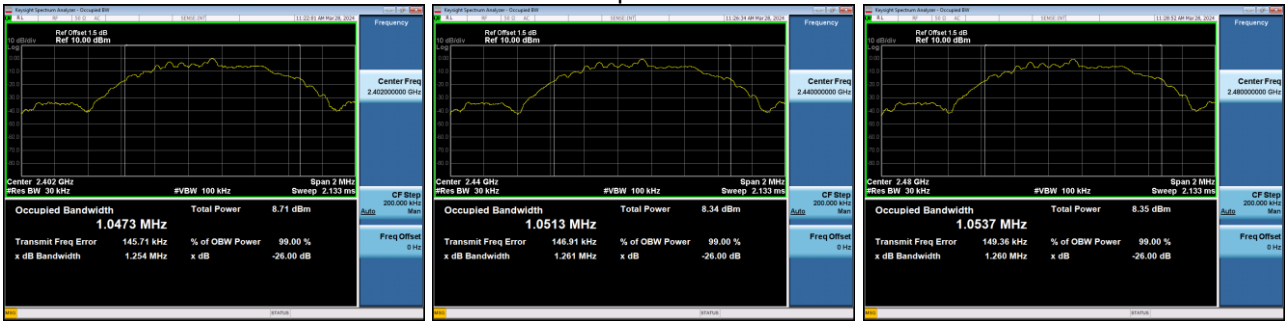
CH19

CH39

6 dB Bandwidth



99 % Occupied Bandwidth



Test Mode	TX Mode _2Mbps
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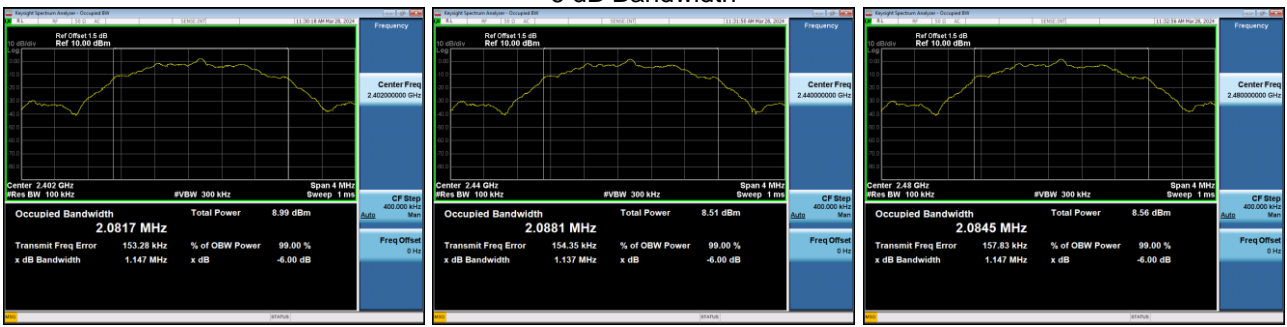
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	1.147	2.0610	0.5	Pass
19	2440	1.137	2.0641	0.5	Pass
39	2480	1.147	2.0630	0.5	Pass

CH00

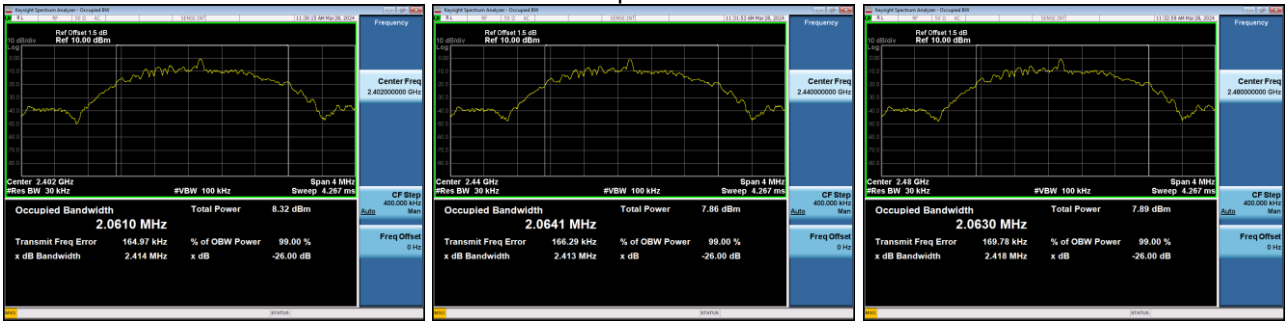
CH19

CH39

6 dB Bandwidth



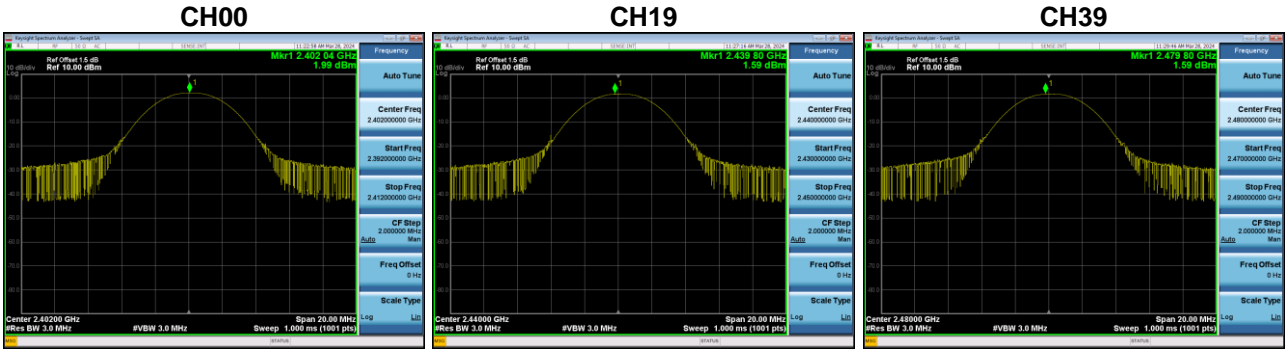
99 % Occupied Bandwidth



## APPENDIX E - MAXIMUM OUTPUT POWER

Test Mode	TX Mode _1Mbps
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	1.99	0.0016	30.00	1.0000	Pass
2440	1.59	0.0014	30.00	1.0000	Pass
2480	1.59	0.0014	30.00	1.0000	Pass

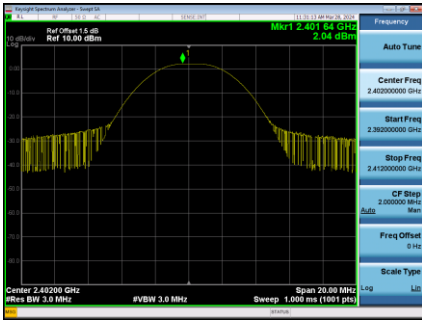




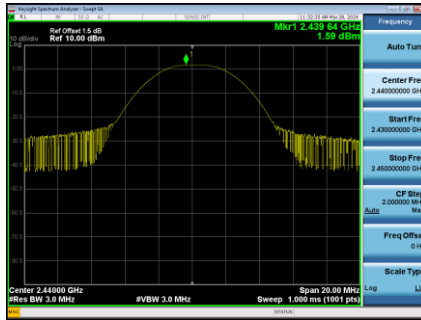
Test Mode	TX Mode _2Mbps
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	2.04	0.0016	30.00	1.0000	Pass
2440	1.59	0.0014	30.00	1.0000	Pass
2480	1.61	0.0014	30.00	1.0000	Pass

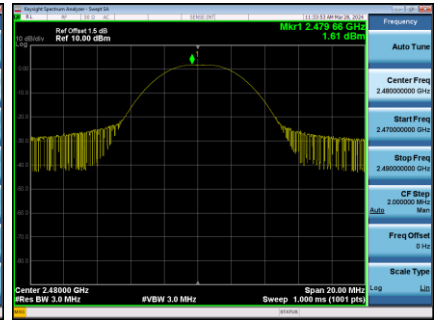
CH00



CH19



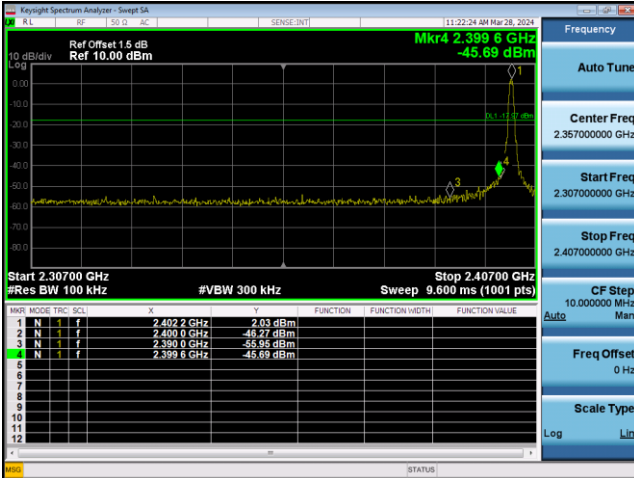
CH39



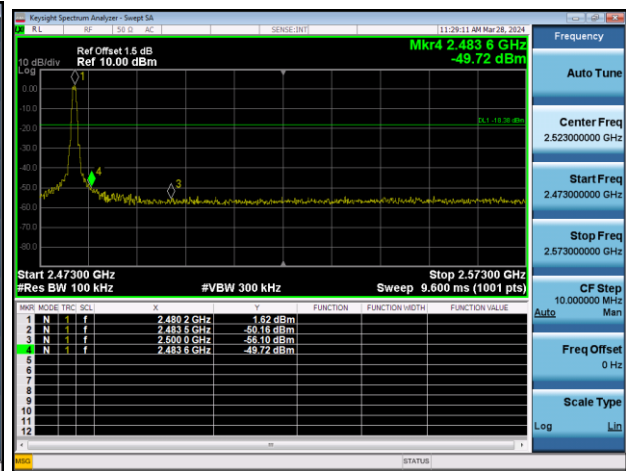
## **APPENDIX F - CONDUCTED SPURIOUS EMISSION**

Test Mode TX Mode \_1Mbps

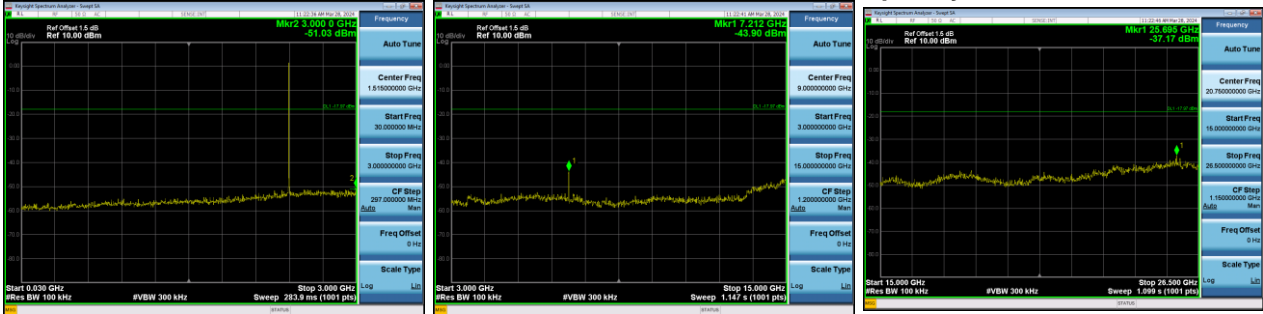
### Bandedge CH00 (Lower)



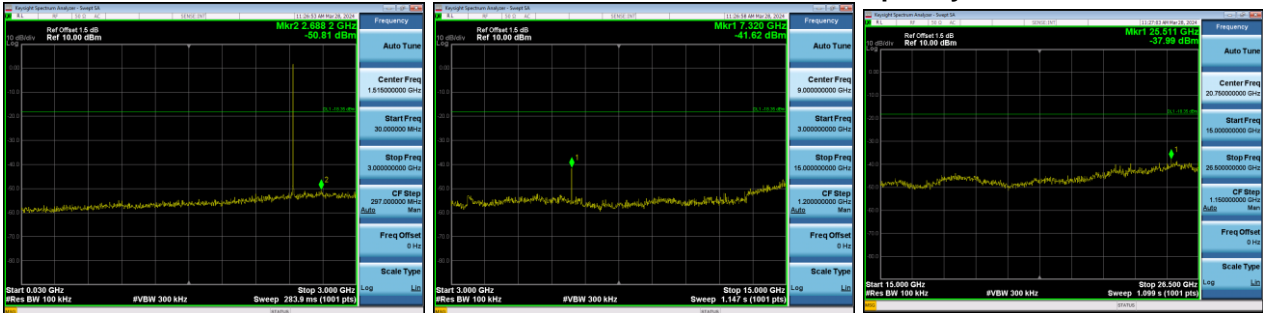
### Bandedge CH39 (Upper)



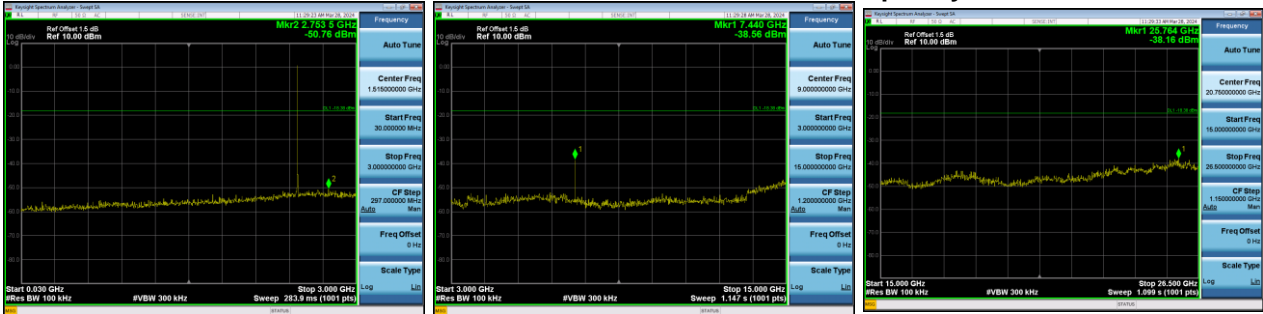
### CH00 – 10th Harmonic of the fundamental frequency



### CH19 – 10th Harmonic of the fundamental frequency

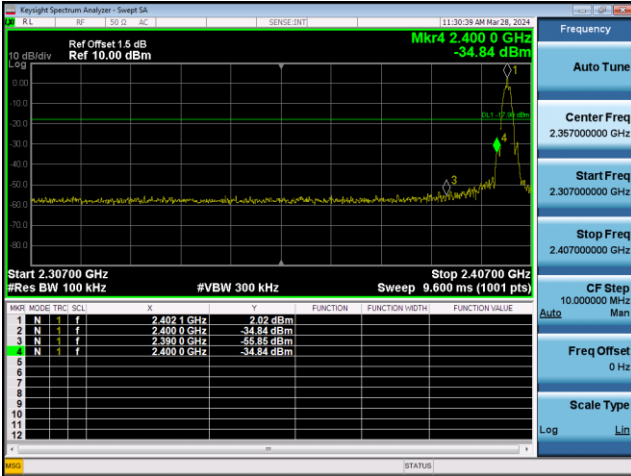


### CH39 – 10th Harmonic of the fundamental frequency

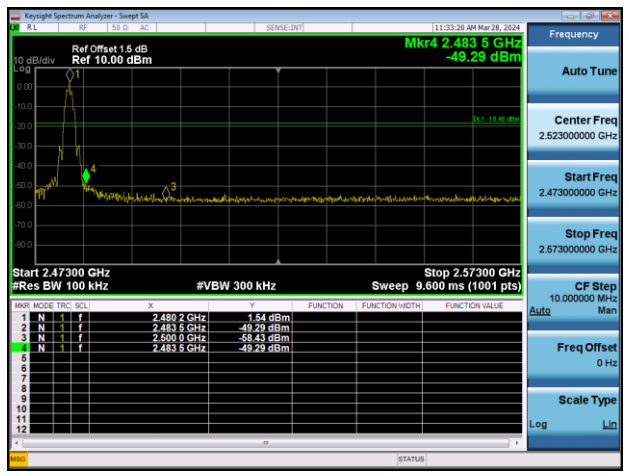


Test Mode TX Mode \_2Mbps

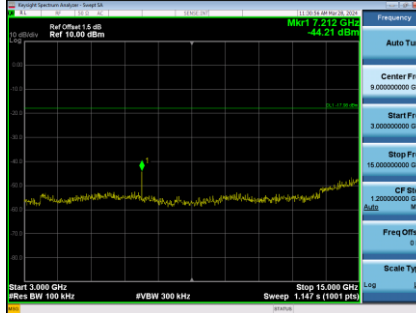
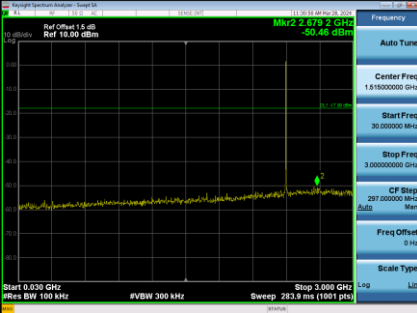
### Bandedge CH00 (Lower)



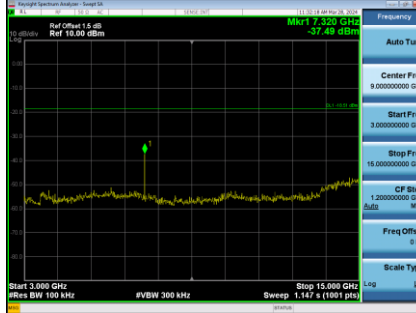
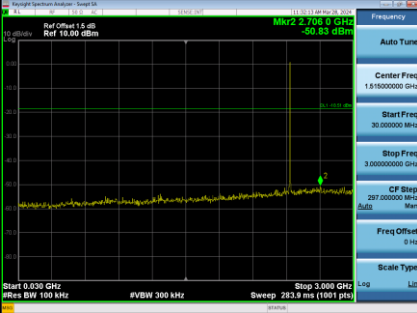
### Bandedge CH39 (Upper)



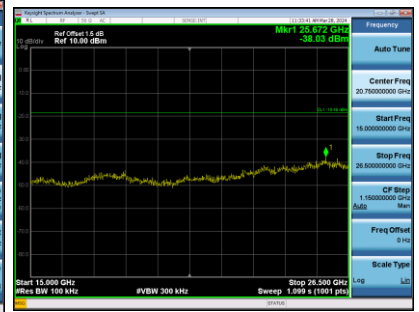
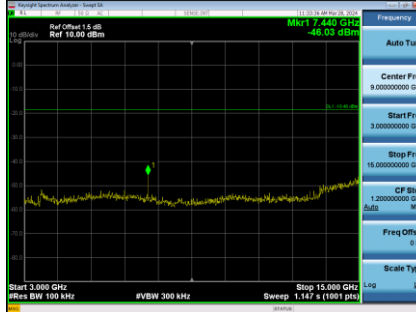
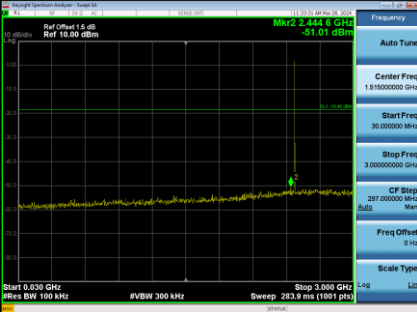
### CH00 – 10th Harmonic of the fundamental frequency



### CH19 – 10th Harmonic of the fundamental frequency



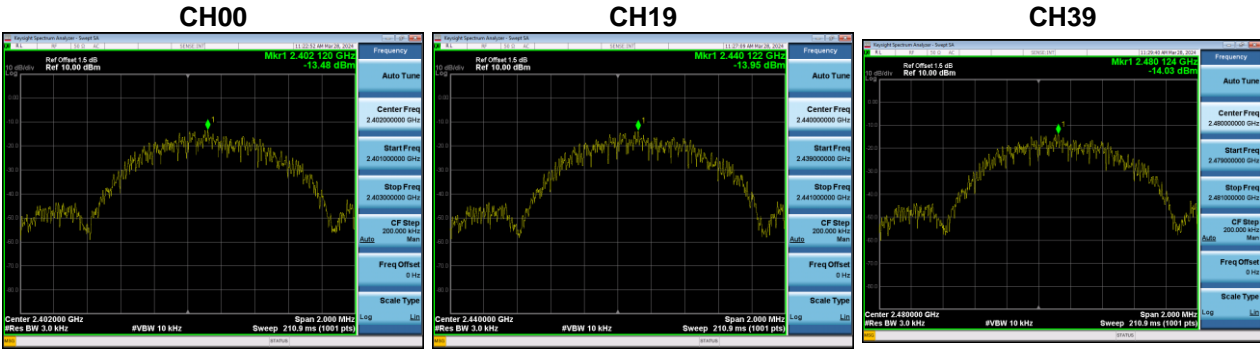
### CH39 – 10th Harmonic of the fundamental frequency



## APPENDIX G - POWER SPECTRAL DENSITY

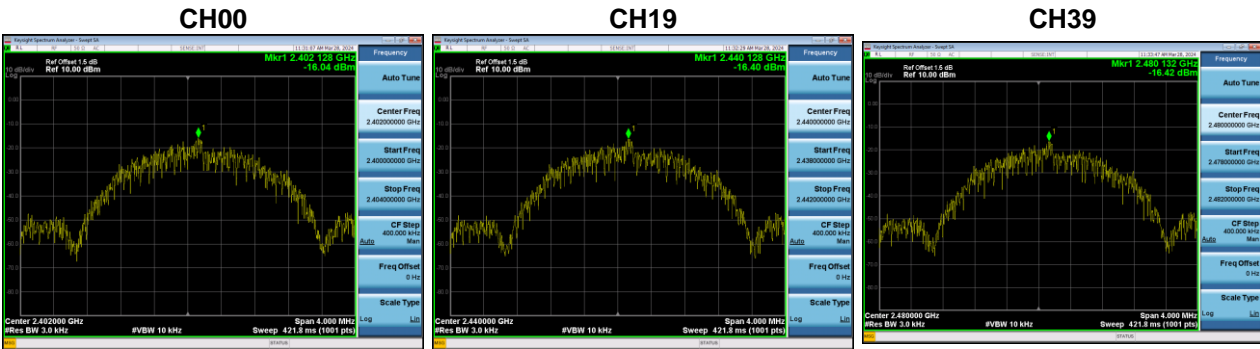
Test Mode	TX Mode _1Mbps
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-13.48	8.00	Pass
19	2440	-13.95	8.00	Pass
39	2480	-14.03	8.00	Pass



Test Mode	TX Mode _2Mbps
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-16.04	8.00	Pass
19	2440	-16.40	8.00	Pass
39	2480	-16.42	8.00	Pass



End of Test Report