

FCC Radio Test Report

FCC ID: R9C-CPH2365

This report concerns: Original Grant

Project No.	:	2108C136
Equipment		Mobile Phone
Brand Name		OPPO
Test Model		CPH2365
Series Model	-	N/A
	•	
Applicant	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City,
		Guangdong, China
Factory	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	:	NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City,
		Guangdong, China
Date of Receipt	:	Dec. 23, 2020
Date of Test	:	Dec. 24, 2020 ~ Aug. 29, 2021
Issued Date	:	Aug. 30, 2021
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2020122315 for conducted,
•		DG2020122314 for radiated.
Standard(s)	:	
	•	ANSI C63.10-2013
		FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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

Treen chen

Prepared by : Treey Chen

Steven In

Approved by : Steven Lu



Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China Tel: +86-769-8318-3000 Web: www.newbtl.com



Declaration

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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.	Aug. 30, 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 Re							
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS				
15.247(d) 15.205(a) 15.209(a)	Radiated Emission	APPENDIX B APPENDIX C APPENDIX D	PASS				
15.247 (a)(1)(iii)	Number of Hopping Frequency	APPENDIX E	PASS				
15.247 (a)(1)(iii)	Average Time Of Occupancy	APPENDIX F	PASS				
15.247(a)(1)	Hopping Channel Separation	APPENDIX G	PASS				
15.247(a)(1)	Bandwidth	APPENDIX H	PASS				
15.247(a)(1)	Maximum Output Power	APPENDIX I	PASS				
15.247(d)	Conducted Spurious Emission	APPENDIX J	PASS				
15.203	Antenna Requirement		PASS	Note(2)			

Note:

- (1) "N/A" denotes test is not applicable in this test report
- (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 test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.68

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9kHz ~ 30MHz	-	2.36
	CISPR	30MHz ~ 200MHz	V	4.36
DG-CB03		30MHz ~ 200MHz	Н	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	Н	3.96
		1GHz ~ 6GHz	I	3.80
		6GHz ~ 18GHz	I	4.82
		18GHz ~ 26.5GHz	I	3.62
		26.5GHz ~ 40GHz	I	4.00

C. Other Measurement:

Test Item	Uncertainty
Conducted Spurious Emission	±2.71 dB
Hopping Channel Separation	±53.46 Hz
Maximum Output Power	±0.95 dB
Number of Hopping Frequency	±53.46 Hz
Bandwidth	±3.8 %
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	25°C	53%	AC 120V/60Hz	Luca Jiang
Radiated Emissions-9K to 30MHz	25°C	60%	AC 120V/60Hz	Grani Zhou
Radiated Emissions-30 MHz to 1GHz	26°C	52%	AC 120V/60Hz	Grani Zhou
Radiated Emissions-Above 1000 MHz	26°C	52%	AC 120V/60Hz	Grani Zhou
Number of Hopping Frequency	21.7°C	43%	DC 3.87V	Jesse Wang
Average Time Of Occupancy	21.7°C	43%	DC 3.87V	Jesse Wang
Hopping Channel Separation	21.7°C	43%	DC 3.87V	Jesse Wang
Bandwidth	21.7°C	43%	DC 3.87V	Jesse Wang
Maximum Output Power	21.7°C	43%	DC 3.87V	Jesse Wang
Conducted Spurious Emission	21.7°C	43%	DC 3.87V	Jesse Wang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone	
Brand Name	OPPO	
Test Model	CPH2365	
Series Model	N/A	
Model Difference(s)	N/A	
Power Source	 DC Voltage supplied from AC adapter. Model: VCB3HAUH Supplied from Li-ion Polymer battery. 1# Manufacturer / Model: Sunwoda / BLP851 2# Manufacturer / Model: TWS / BLP851 Supplied from USB port. 	
Power Rating	1. I/P:100-240V~ 50/60Hz 1.2A O/P: 5V 2A or 5-11V 3A MAX 2. 3.87Vdc, 4880mAh 3. DC 5V	
Operation Frequency	2402 MHz ~ 2480 MHz	
Modulation Type	GFSK, π/4-DQPSK, 8-DPSK	
Bit Rate of Transmitter	1 Mbps, 2Mbps, 3Mbps	
Max. Output Power	1Mbps: 12.36 dBm (0.0172 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)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	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	Iode 1 TX Mode_1Mbps Channel 00/39/78	
Mode 2	TX Mode_2Mbps Channel 00/39/78	
Mode 3	TX Mode_3Mbps Channel 00/39/78	
Mode 4 TX Mode_1Mbps Channel 39		

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

AC power line conducted emissions test		
Final Test Mode Description		
Mode 4	TX Mode_1Mbps Channel 39	

Radiated emissions test - Below 1GHz		
Final Test Mode	Description	
Mode 4	TX Mode_1Mbps Channel 39	

Radiated emissions test - Above 1GHz				
Final Test Mode	Description			
Mode 1	TX Mode_1Mbps Channel 00/39/78			
Mode 3	TX Mode_3Mbps Channel 00/39/78			

Maximum Output Power		
Final Test Mode Description		
Mode 1 TX Mode_1Mbps Channel 00/39/78		
Mode 2	TX Mode_2Mbps Channel 00/39/78	
Mode 3	TX Mode_3Mbps Channel 00/39/78	

Other Conducted test		
Final Test Mode Description		
Mode 1	TX Mode_1Mbps Channel 00/39/78	
Mode 3	TX Mode_3Mbps Channel 00/39/78	

Note:

(1) The measurements for Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case were 1Mbps and 3Mbps, only worst case were documented for other test items.

- (2) 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.
- (3) This product has the mode of BT AFH, which was considered during testing, but this mode is not the worst case mode, and this report only shows the worst case mode.
- (4) For AC power line conducted emissions and radiated spurious emissions below 1 GHz test, the 1Mbps channel 39 is found to be the worst case and recorded.





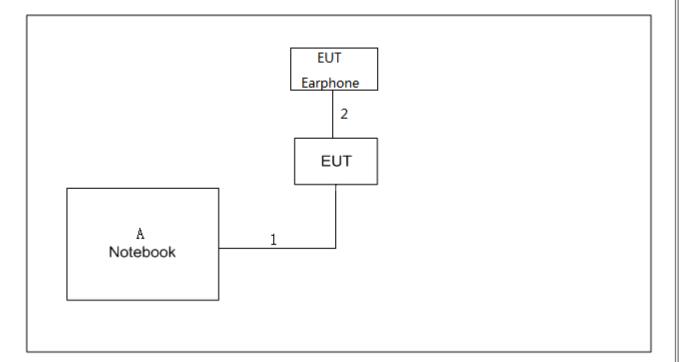
2.3 PARAMETERS OF TEST SOFTWARE

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS.

Test Software Version	QRCT		
Frequency (MHz)	2402	2441	2480
Parameters(1Mbps)	9	9	9
Parameters(2Mbps)	9	9	9
Parameters(3Mbps)	9	9	9



2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
А	Notebook	Dell	Inspiron 14-N4030	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	YES	NO	1m
2	Audio Cable	NO	NO	1.1m



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

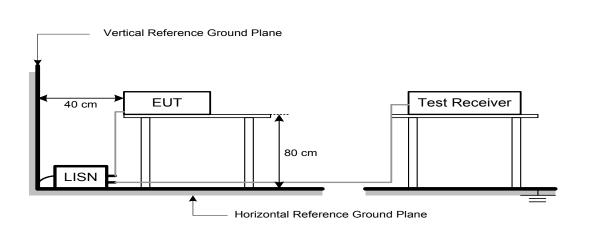
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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 function (as a customer would normally use it), EUT was programmed to be in continuously transmitting data or hopping on mode.

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



4. RADIATED EMISSION

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)

	(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	

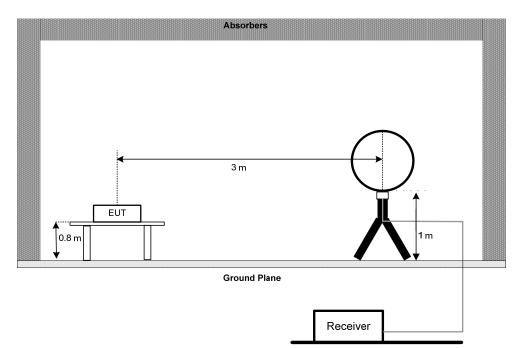
4.3 DEVIATION FROM TEST STANDARD

No deviation.

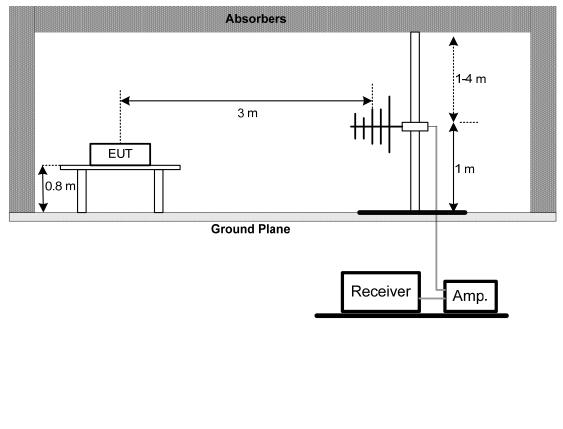


4.4 TEST SETUP

9 kHz to 30 MHz



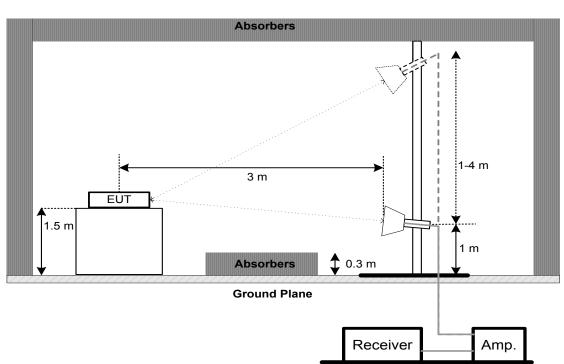
30 MHz to 1 GHz





3TL

Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 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 RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 TEST RESULTS - 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. NUMBER OF HOPPING FREQUENCY

5.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(1)(iii)	Number of Hopping Frequency	15

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:

Spectrum Parameters	Setting
Span Frequency	> Operating Frequency Range
RBW	100 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 DEVIATION FROM STANDARD No deviation.

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. AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(1)(iii)	Average Time of Occupancy	0.4sec

6.2 TEST PROCEDURE

- a. Set the EUT for DH1, DH3 and DH5 packet transmitting.
- b. Measure the maximum time duration of one single pulse.
- c. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.
- d. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
- e. DH5 Packet permit maximum 1600/79 / 6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds.
- f. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- g. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	0 MHz
RBW	1 MHz
VBW	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	As necessary to capture the entire dwell time per hopping channel

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. HOPPING CHANNEL SEPARATION

7.1 LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.2 TEST PROCEDURE

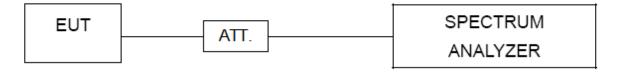
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameter	Setting
Span Frequency	Wide enough to capture the peaks of two adjacent channels
RBW	30 kHz
VBW	100 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. BANDWIDTH

8.1 LIMIT

Section	Test Item
FCC 15.247(a)(1)	Bandwidth

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 Parameter	Setting
Span Frequency	> Measurement Bandwidth
RBW	30 kHz
VBW	100 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. MAXIMUM OUTPUT POWER

9.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(1)	Maximum Output Power	0.125 Watt or 21 dBm

Note: Frequency hopping systems operating in the 2400-2483.5 MHz band may have hoppingchannel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 TEST PROCEDURE

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

Spectrum Parameters	Setting
Span Frequency	Approximately five times the 20 dB bandwidth, centered on a hopping channel.
RBW	3 MHz
VBW	3 MHz
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX I.



10. CONDUCTED SPURIOUS EMISSION

10.1 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.

10.2 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	100 kHz			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 TEST SETUP



10.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

10.6 TEST RESULTS

Please refer to the APPENDIX J.



11. 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						
2	Cable	N/A	RG 213/U	N/A	May 27, 2022				
3	EMI Test Receiver	R&S	ESCI 100895		Feb. 27, 2022				
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
5	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022				

	Radiated Emissions - 30 MHz to 1 GHz								
Item	m 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	СТ	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	Schwarzbeck BBHA 9170		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	N9038A MY52130039					
6	Controller	СТ	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. 16, 2021				
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
10	Filter	STI	STI15-9912	STI15-9912 N/A Ju					
11	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022				





Number of Hopping Frequency & Average Time of Occupancy & Hopping Channel Separation & Bandwidth & Maximum Output Power & Conducted Spurious Emission							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer R&S FSP40 100185 Jul. 10,						
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		

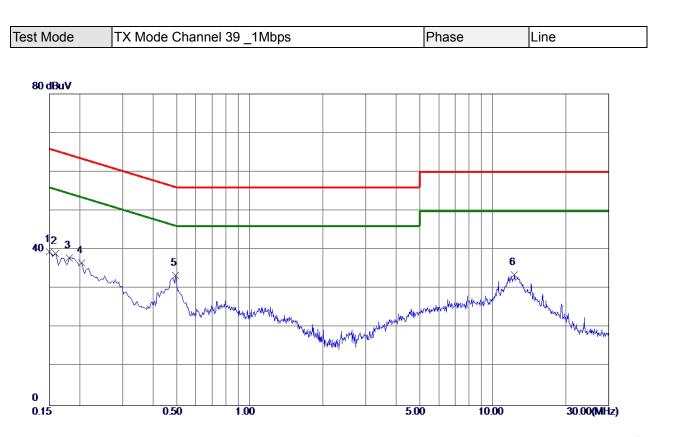
Remark "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

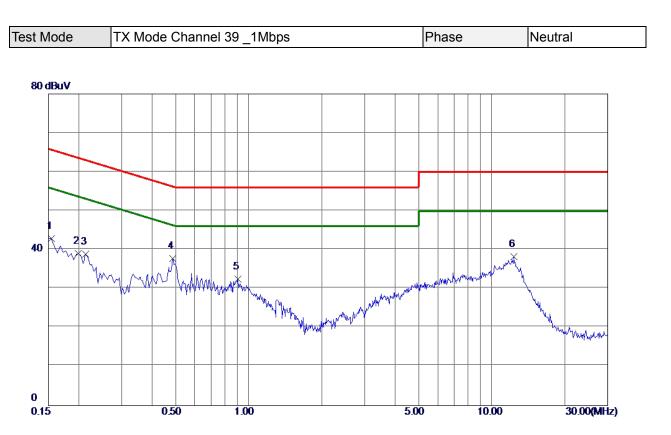




No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	29.86	9.67	39. 53	66.00	-26. 47	Peak	
2	0.1590	29.37	9.74	39.11	65. 52	-26. 41	Peak	
3	0.1815	28.06	9.85	37.91	64.42	-26. 51	Peak	
4	0.2040	26.69	9.91	36.60	63.45	-26.85	Peak	
5 *	0.4965	23. 52	9.95	33. 47	56.06	-22. 59	Peak	
6	12.2775	22.77	10.80	33. 57	60.00	-26. 43	Peak	

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





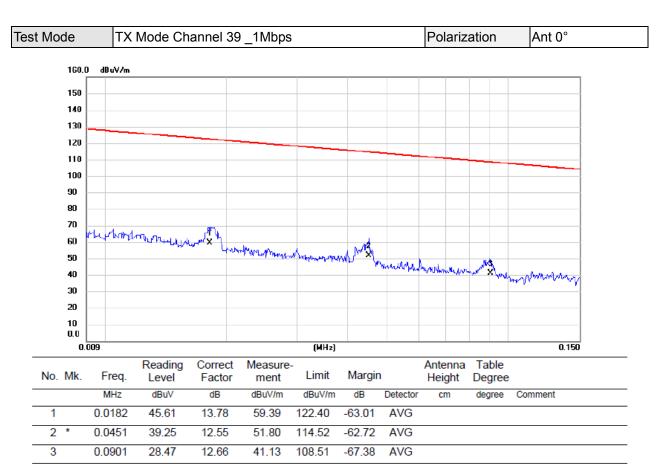
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1545	33.14	9.78	42.9 2	65.75	-22.83	Peak	
2	0. 1995	28.98	10.01	38.99	63.63	-24.64	Peak	
3	0.2130	28.89	10.00	38.89	63.09	-24. 20	Peak	
4 *	0.4875	27.66	10.13	37.79	56.21	-18.42	Peak	
5	0.9060	22.26	10.27	32. 53	56.00	-23. 47	Peak	
6	12. 3495	27.18	11.08	38.26	60.00	-21.74	Peak	
5	0.9060	22.26	10.27	32. <mark>5</mark> 3	56.00	-23. 47	Peak	

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



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

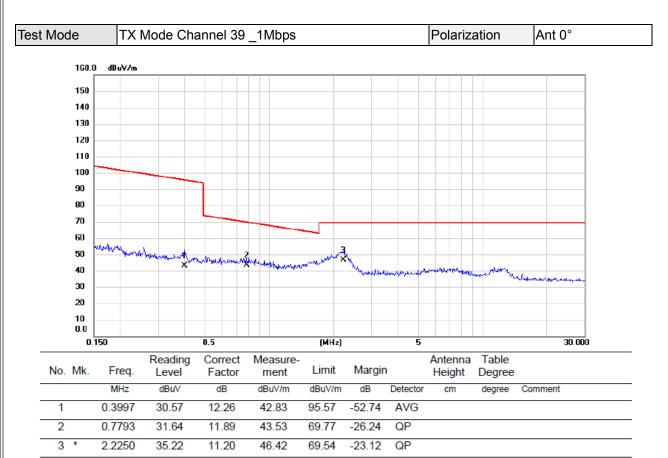




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

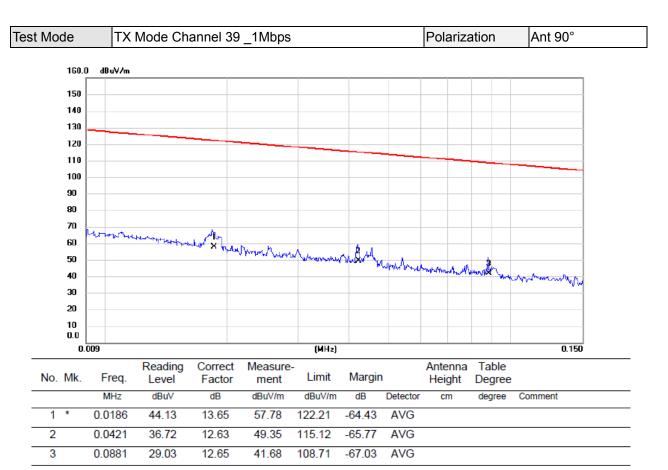






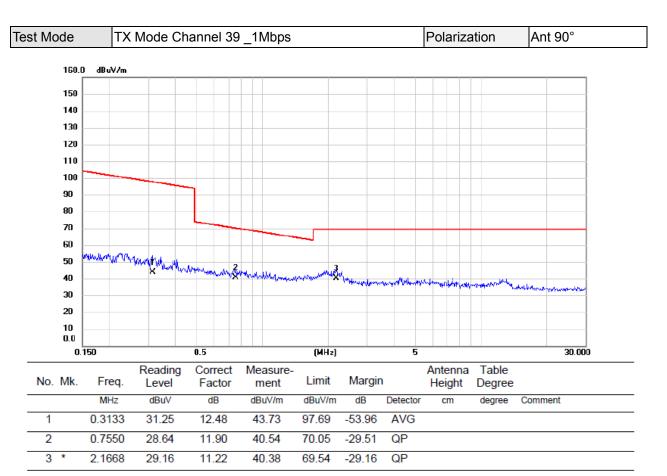
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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



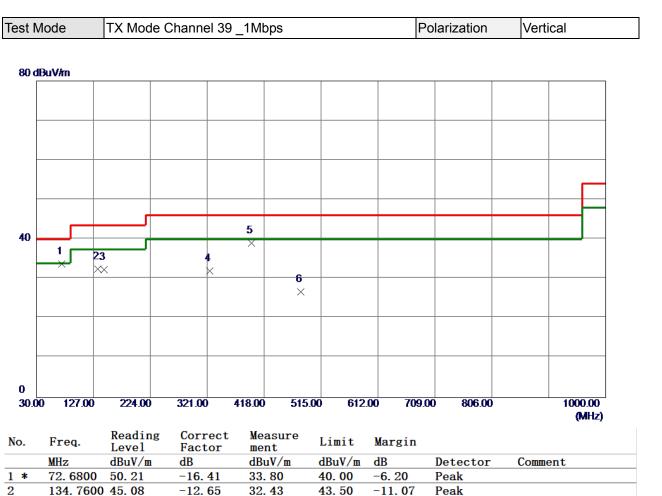


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

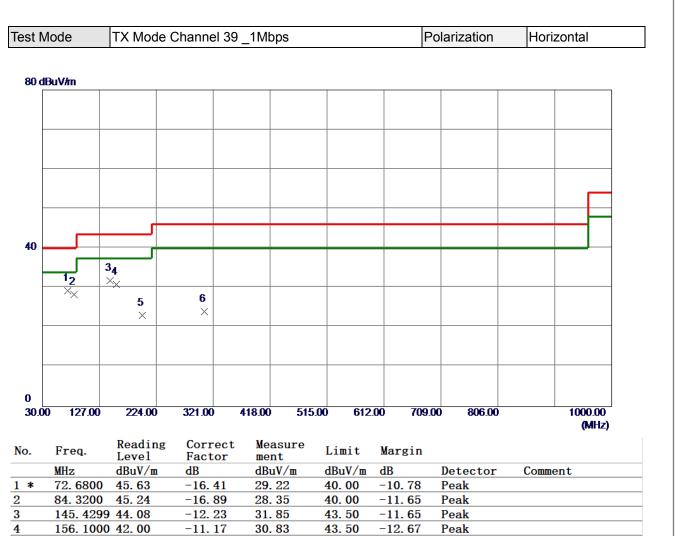




2	134.7600 45.08	-12.65	32.43	43. 50	-11. 0 7	Peak	
3	145. 4299 44. 54	-12.23	32.31	43. 50	-11. 19	Peak	
4	324.8800 42.54	-10.60	31.94	46.00	-14.06	Peak	
5	396.6600 48.07	-9. 09	38.98	46.00	-7.02	Peak	
6	480.0800 34.07	-7.41	26.66	46.00	-19.34	Peak	

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





43. 50

43. 50

46.00

-12.67

-20. 40

-22. 00

Peak

Peak

Peak

REMARKS:

4

5

6

200. 7200 37. 94

305. 4800 34. 91

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

-11.17

-14.84

-10.91

30.83

23.10

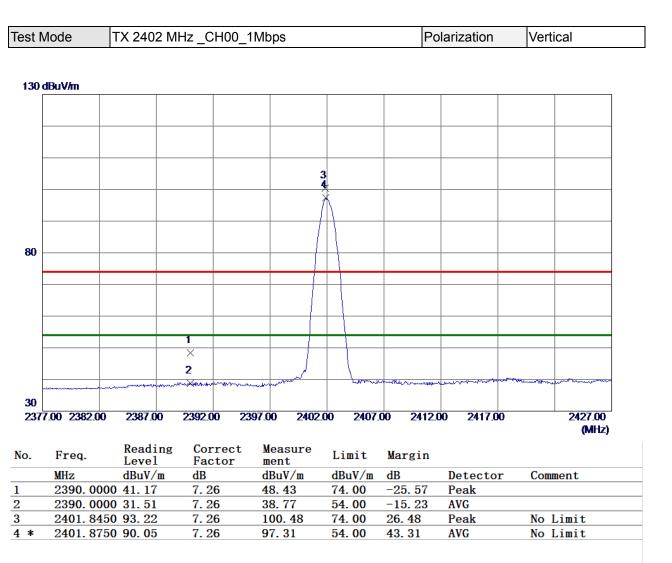
24.00

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



APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ



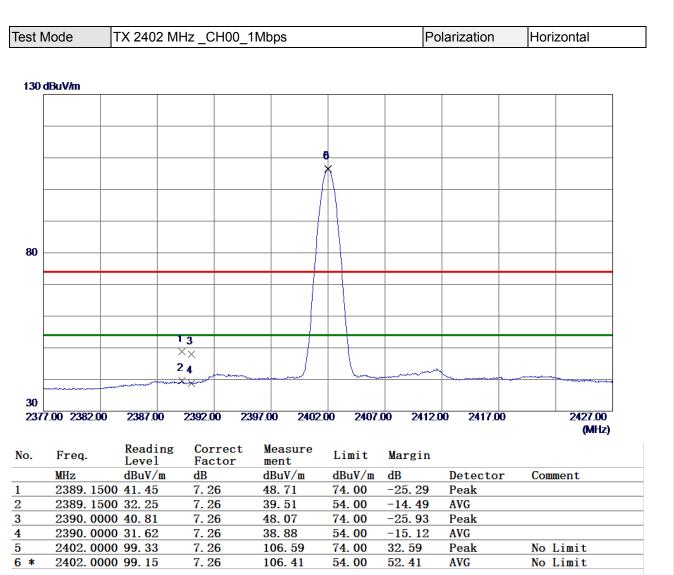


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



DaBuVin	Mode	TX 2402 N	/Hz_CH00	0_1Mbps		P	olarization		Vert	tical
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	MHz 4803.87	Leve1 dBuV/m 769 30.76	Factor dB 4.40		dBuV/m 54.00	dB -18.84	AVG	r	Com	ment





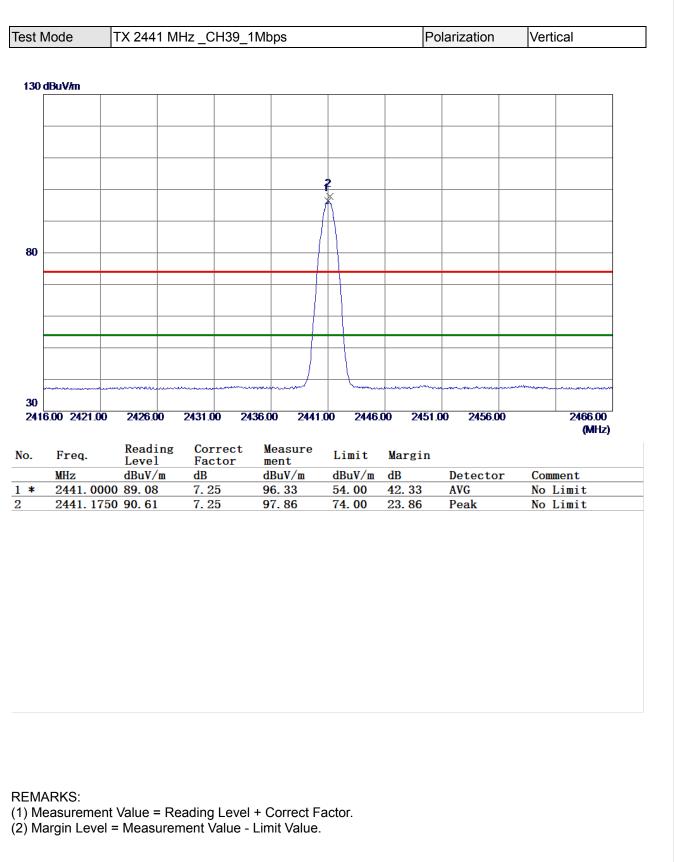
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



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о.	Freq.	Reading Level	correct	t Measure	Limit	Margin		
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	4803. 79	900 43.17	4.40	47.57	74.00	-26. 43	Peak	
*	4803.99		4.40	41. 19	54.00	-12.81	AVG	

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

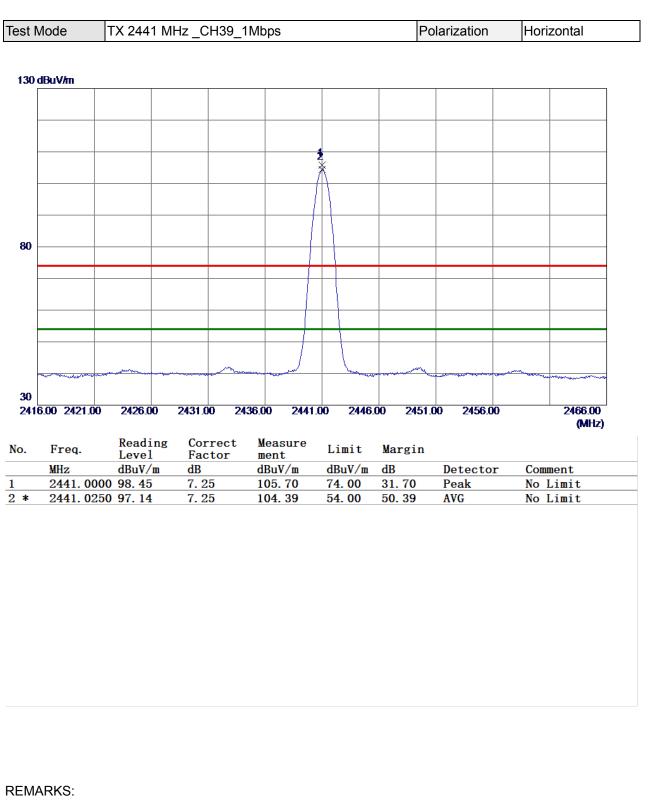






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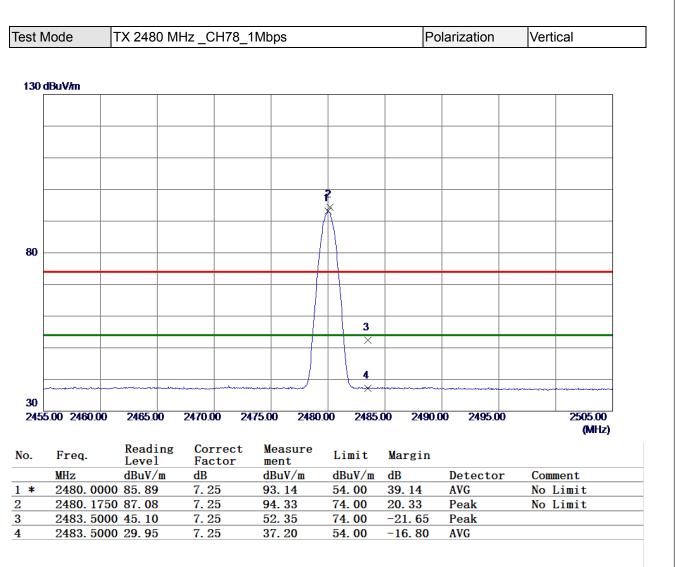


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



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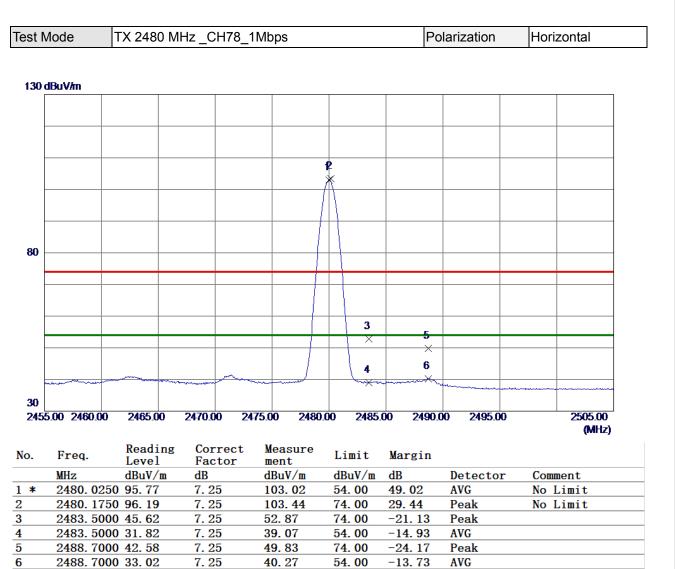


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



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4960. 5690 40. 02 4. 81 44. 83 74. 00 -29. 17 Peak	



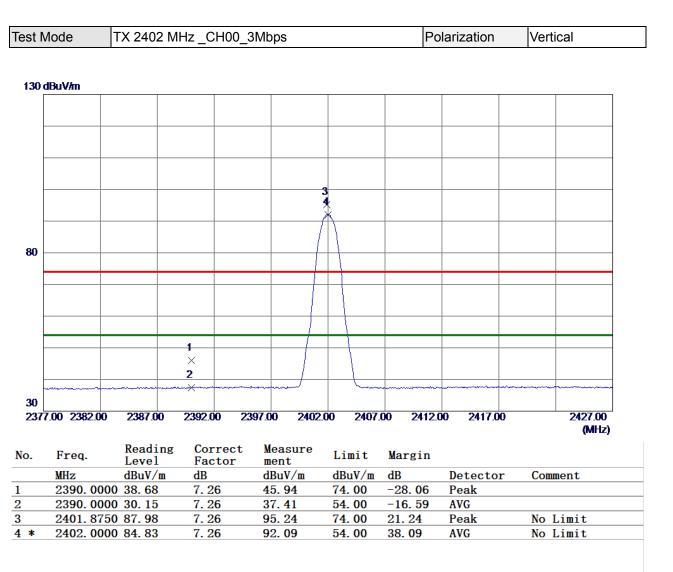


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



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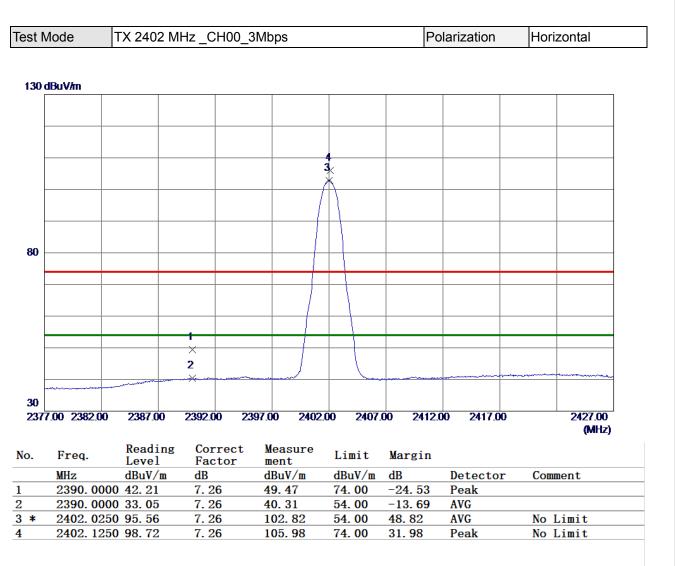


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



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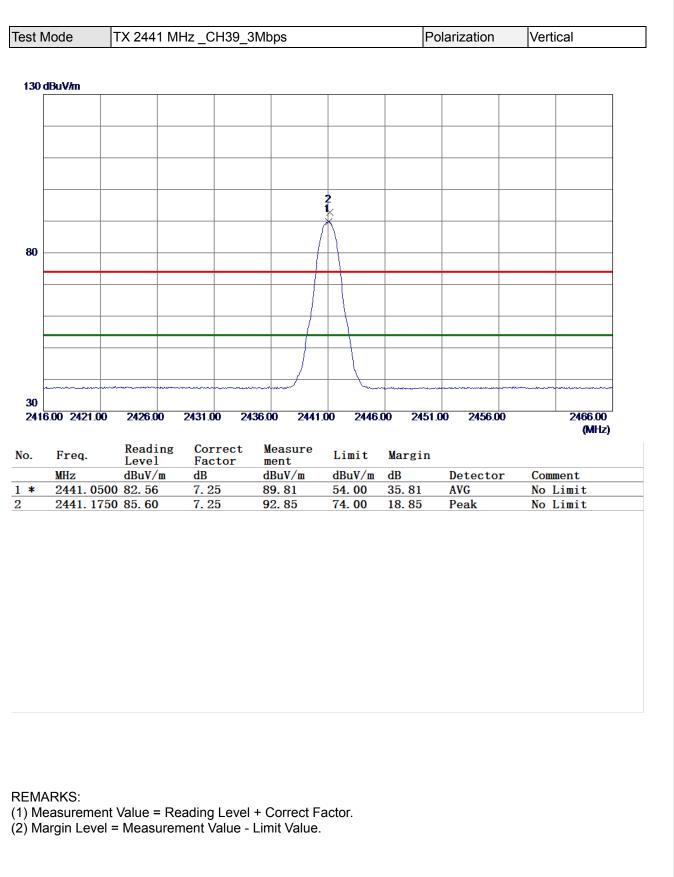


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



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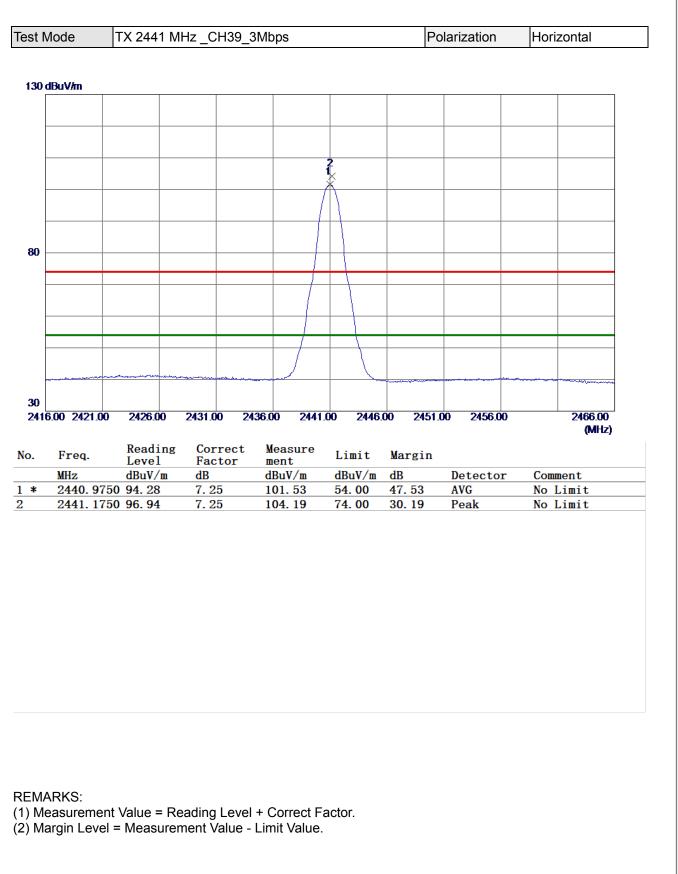






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1 1 2	Image: Contract Measure Level Limit Margin MHz dBuV/m dBuV/m dB Detector Comment	20 AI	au Vim								
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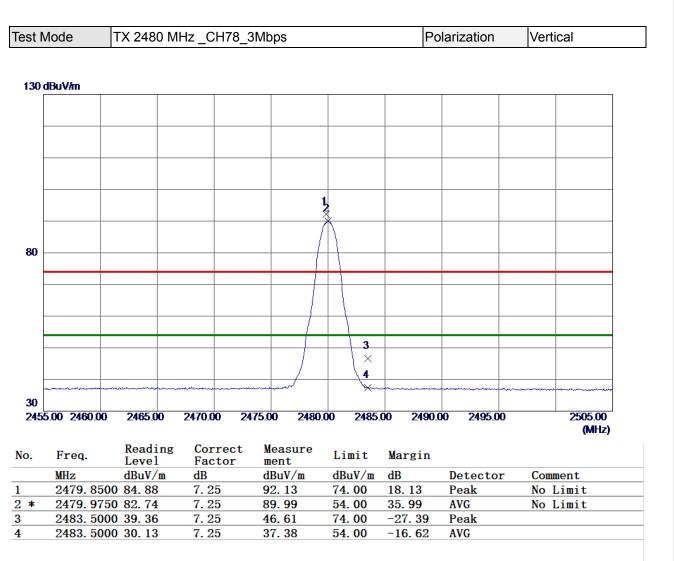






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4881. 9230 31. 6	0 4.60	36.20	54.00	-17.80	AVG	



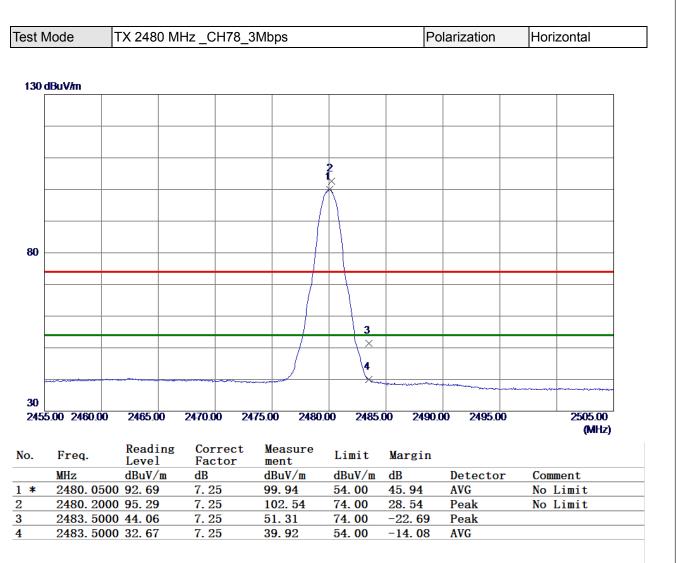


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



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



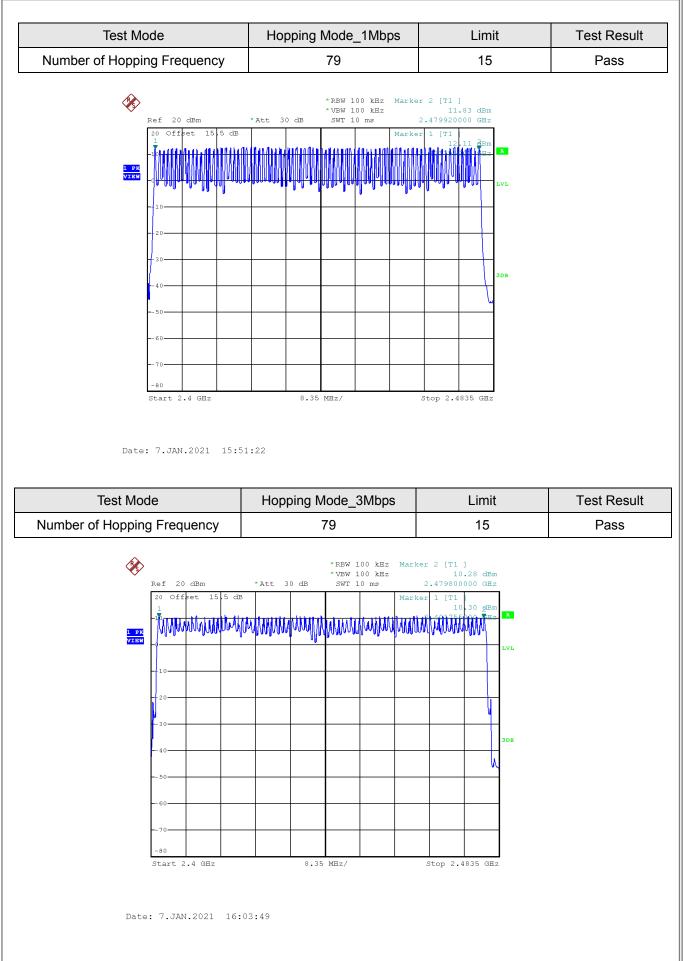
S0 dBuV/n 1 1 2 30 1 2 30 1 50 1 50 50 50 50 50 50 50 50 50 50	dBuV/m		1Hz _CH78_	3Mbps		Pc	larization	Hor	izontal
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								Соп	ment
4333. 3420 31. 00 4. 01 30. 41 34. 00 11. 33 AVG									





APPENDIX E - NUMBER OF HOPPING FREQUENCY







APPENDIX F - AVERAGE TIME OF OCCUPANCY



Test Mode:	Hopping Mode_1Mbp)S			
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH1	2402	0.3850	0.1232	0.4000	Pass
DH3	2402	1.6600	0.2656	0.4000	Pass
DH5	2402	2.9200	0.3115	0.4000	Pass
DH1	2441	0.3850	0.1232	0.4000	Pass
DH3	2441	1.6600	0.2656	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH1	2480	0.3850	0.1232	0.4000	Pass
DH3	2480	1.6400	0.2624	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass

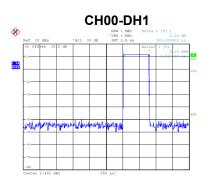
CH78-DH1

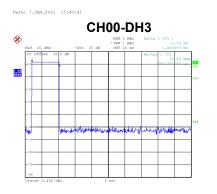
RBW 1 MHz VBW 1 MHz SWT 2.5 m

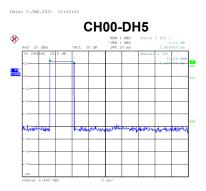
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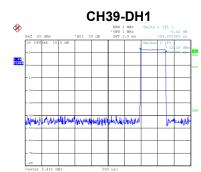
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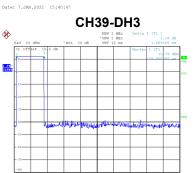




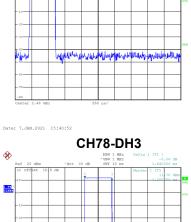


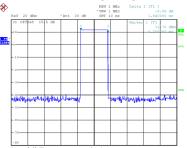


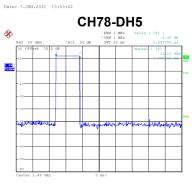












Date: 7.JAN.2021 15:53:13

Date: 7.JAN.2021 15:53:17

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1 PK CLRWF

Date: 7.JAN.2021 15:53:23





Test Mode:	lopping Mode_3Mbp)S			
Data Packet	Frequency	Pulse Duration	Dwell Time	Limits	Test Result
Data Facket	(MHz)	(ms)	(s)	(s)	i est i tesuit
3DH1	2402	0.3900	0.1248	0.4000	Pass
3DH3	2402	1.6400	0.2624	0.4000	Pass
3DH5	2402	2.9200	0.3115	0.4000	Pass
3DH1	2441	0.3900	0.1248	0.4000	Pass
3DH3	2441	1.6400	0.2624	0.4000	Pass
3DH5	2441	2.9200	0.3115	0.4000	Pass
3DH1	2480	0.3900	0.1248	0.4000	Pass
3DH3	2480	1.6400	0.2624	0.4000	Pass
3DH5	2480	2.9200	0.3115	0.4000	Pass

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CH78-3DH1

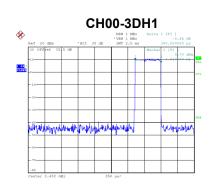
*JBW 1 MHZ *VBW 1 MHZ SWT 2.5 md

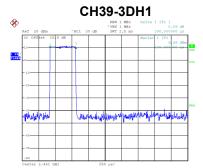
8

LPR

hinkerhaper



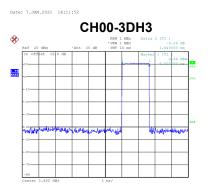


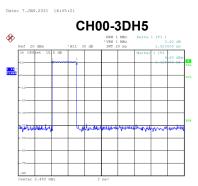


CH39-3DH3

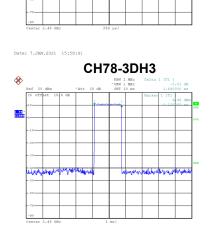
1 MHz 1 MHz

the north manufler

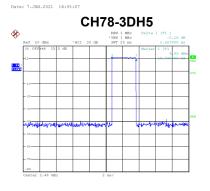








hipilasi



Date: 7.JAN.2021 16:05:41

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8

L PE CLRWR

Date: 7.JAN.2021 16:05:48



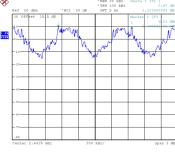


APPENDIX G - HOPPING CHANNEL SEPARATION



Fest Mode:	Hopping Mode_	1Mbps		
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	1.314	0.632	Pass
39	2441	1.334	0.632	Pass
78	2480	1.010	0.617	Pass
*	H000 80 50 Mits Pales 1 (71.1) 90 55 Mits 1 (71.1) 1.114000000 Mits 1.11400000 Mits 1 (71.5) 1.11400000 Mits 1 (71.5) 1.114000000 Mits 1 (71.5) 1.114000000 Mits 1 (71.5) 1.11400000000 Mits 1 (71.5) 1.1140000000 Mits 1 (71.5) 1.1140000000000000000000000000000000000	CH39		II Delta 1 [T1] .Ez 0.60 dB 1.010000000 MHz Marker 1 [T1] 9.36 dBn 2.47016060.0 dBn







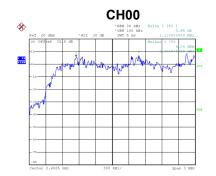
Date: 7.JAN.2021 15:57:51

Date: 7.JAN.2021 15:47:23

Date: 7.JAN.2021 15:48:29

Test Mode: Hopping Mode_3Mbps

Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	1.133	0.865	Pass
39	2441	1.192	0.871	Pass
78	2480	1.113	0.861	Pass







Date: 7.JAN.2021 16:13:47

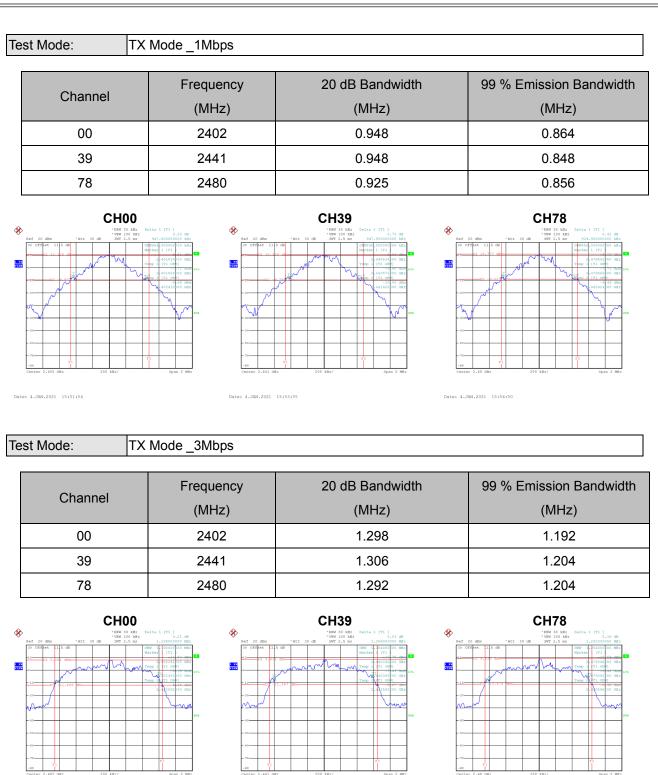
Date: 7.JAN.2021 16:00:55

Date: 7.JAN.2021 16:02:02



APPENDIX H - BANDWIDTH





Date: 4.JAN.2021 15:59:02

Date: 4.JAN.2021 16:00:55

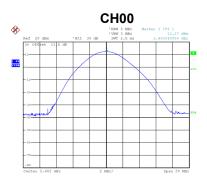
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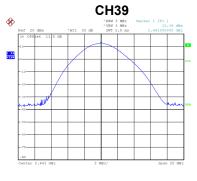


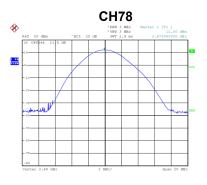
APPENDIX I - MAXIMUM OUTPUT POWER



Т	est Mode:	TX Mod	e _1Mbps				
	Channel	Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Test
	Channel	(MHz)	(dBm)	(VV)	(dBm)	(W)	Result
	00	2402	12.27	0.0169	21.00	0.125	Pass
	39	2441	12.36	0.0172	21.00	0.125	Pass
	78	2480	12.00	0.0158	21.00	0.125	Pass







Date: 4.JAN.2021 15:55:25

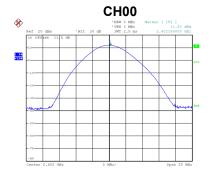
Date: 4.JAN.2021 15:52:29

Test Mode:

Date: 4.JAN.2021 15:54:01

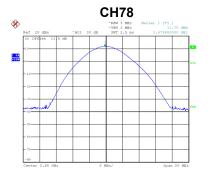
TX Mode _2Mbps

Channe	Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Test
Channel	(MHz)	(dBm)	(VV)	(dBm)	(W)	Result
00	2402	11.83	0.0152	21.00	0.125	Pass
39	2441	11.29	0.0134	21.00	0.125	Pass
78	2480	11.70	0.0148	21.00	0.125	Pass





Date: 4.JAN.2021 15:56:49



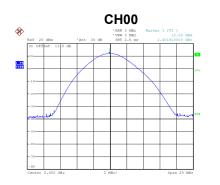
Date: 4.JAN.2021 15:57:31

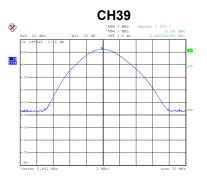
Date: 4.JAN.2021 15:56:10



Test Mode: TX Mode _3Mbps

Channel	Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Test
Channel	(MHz)	(dBm)	(W)	(dBm)	(W)	Result
00	2402	12.04	0.0160	21.00	0.125	Pass
39	2441	12.20	0.0166	21.00	0.125	Pass
78	2480	11.82	0.0152	21.00	0.125	Pass







Date: 4.JAN.2021 15:59:37

Date: 4.JAN.2021 16:01:01

Date: 4.JAN.2021 16:02:22

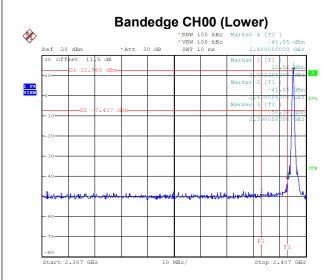


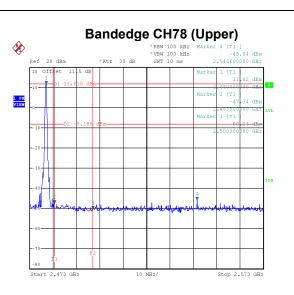
APPENDIX J - CONDUCTED SPURIOUS EMISSION



Test Mode

TX Mode _1Mbps

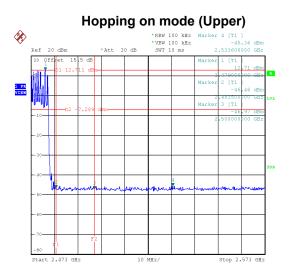




Date: 4.JAN.2021 15:51:27

Hopping on mode (Lower) *RBW 100 kHz *VBW 100 kHz SWT 10 ms \otimes 4 [T1] -44.48 Ref 20 dBm * Att 30 di 20 Off Marl [T1 -4 1 PK VIEW Mark In when Start 2.307 GHz 10 MHz/ Stop 2.407 GHz

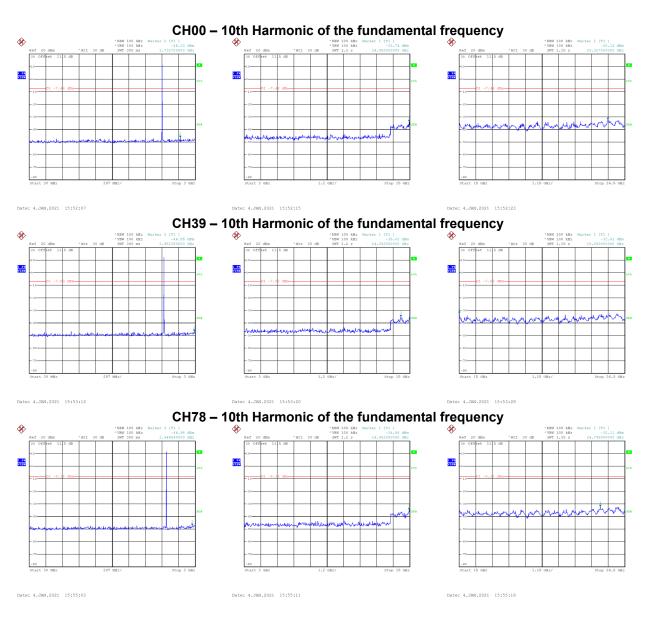
Date: 7.JAN.2021 15:51:56



Date: 7.JAN.2021 15:52:30

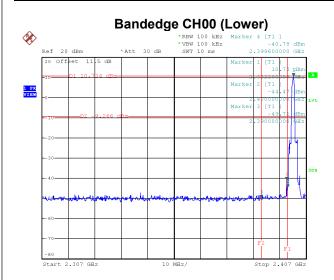
Date: 4.JAN.2021 15:54:25

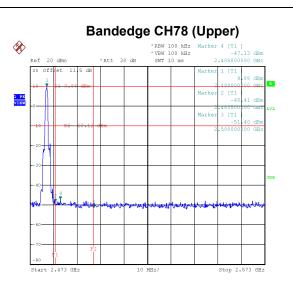






Test Mode TX Mode _3Mbps

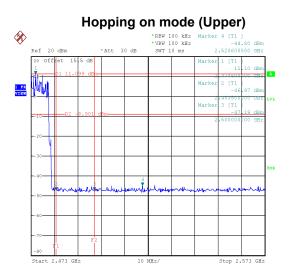




Date: 4.JAN.2021 15:58:43

Hopping on mode (Lower) *RBW 100 kHz *VBW 100 kHz SWT 10 ms 4 [T1] -44.46 \otimes Marker Ref 20 dBm *Att 30 dB 20 Off Ŵ Mar 1 PK VIEW Marke nat ma Start 2.307 GHz 10 MHz/ Stop 2.407 GHz

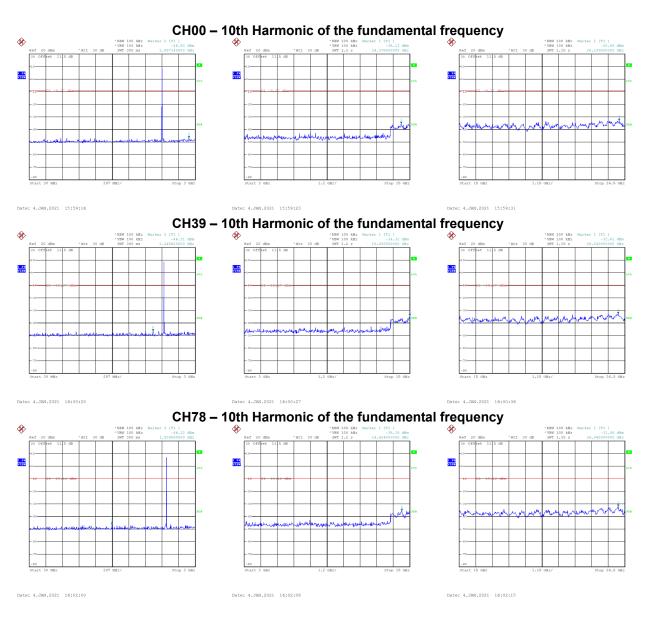
Date: 7.JAN.2021 16:04:23



Date: 7.JAN.2021 16:10:05

Date: 4.JAN.2021 16:01:27





End of Test Repor