



Test Report No.: W7L-P24050016RF01



FCC TEST REPORT (Part 15, Subpart C)

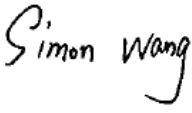
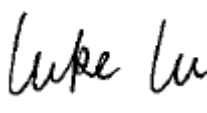
Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	POCO
Model Name:	2410FPCC5G
FCC ID:	2AFZZPCC5G
Date of tests:	May. 11, 2024 ~ Jul. 11, 2024

The tests have been carried out according to the requirements of the following standard:

- FCC Part 15, Subpart C, Section 15.247
- ANSI C63.10-2020

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Jul. 11, 2024	 Date: Jul. 11, 2024

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TABLE OF CONTENTS

RELEASE CONTROL RECORD 5

1 SUMMARY OF TEST RESULTS..... 6

1.1 MEASUREMENT UNCERTAINTY 8

2 GENERAL INFORMATION 9

2.1 GENERAL DESCRIPTION OF EUT 9

2.2 DESCRIPTION OF TEST MODES 10

 2.2.1 CONFIGURATION OF SYSTEM UNDER TEST 11

 2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL..... 11

2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS 13

2.4 DESCRIPTION OF SUPPORT UNITS..... 13

3 TEST TYPES AND RESULTS..... 14

3.1 CONDUCTED EMISSION MEASUREMENT..... 14

 3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT 14

 3.1.2 TEST INSTRUMENTS..... 14

 3.1.3 TEST PROCEDURES 14

 3.1.4 DEVIATION FROM TEST STANDARD 15

 3.1.5 TEST SETUP 15

 3.1.6 EUT OPERATING CONDITIONS 15

 3.1.7 TEST RESULTS 16

3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT 18

 3.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT..... 18

 3.2.2 TEST INSTRUMENTS..... 19

 3.2.3 TEST PROCEDURES 20

 3.2.4 DEVIATION FROM TEST STANDARD 20

 3.2.5 TEST SETUP 21

 3.2.6 EUT OPERATING CONDITIONS 23

 3.2.7 TEST RESULTS 24

3.3 NUMBER OF HOPPING FREQUENCY USED 31

 3.3.1 LIMIT OF HOPPING FREQUENCY USED 31

 3.3.2 TEST SETUP 31

 3.3.3 TEST INSTRUMENTS..... 31

 3.3.4 TEST PROCEDURES 32

 3.3.5 DEVIATION FROM TEST STANDARD 32

 3.3.6 TEST RESULTS 32

3.4 DWELL TIME ON EACH CHANNEL 33



**BUREAU
VERITAS**

Test Report No.: W7L-P24050016RF01

3.4.1	LIMIT OF DWELL TIME USED	33
3.4.2	TEST SETUP	33
3.4.3	TEST INSTRUMENTS	33
3.4.4	TEST PROCEDURES	33
3.4.5	DEVIATION FROM TEST STANDARD	34
3.4.6	TEST RESULTS	34
3.5	CHANNEL BANDWIDTH	35
3.5.1	LIMITS OF CHANNEL BANDWIDTH	35
3.5.2	TEST SETUP	35
3.5.3	TEST INSTRUMENTS	35
3.5.4	TEST PROCEDURE	35
3.5.5	DEVIATION FROM TEST STANDARD	35
3.5.6	EUT OPERATING CONDITION	36
3.5.7	TEST RESULTS	36
3.6	HOPPING CHANNEL SEPARATION	37
3.6.1	LIMIT OF HOPPING CHANNEL SEPARATION	37
3.6.2	TEST SETUP	37
3.6.3	TEST INSTRUMENTS	37
3.6.4	TEST PROCEDURES	37
3.6.5	DEVIATION FROM TEST STANDARD	37
3.6.6	TEST RESULTS	38
3.7	MAXIMUM OUTPUT POWER	38
3.7.1	LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT	38
3.7.2	TEST SETUP	38
3.7.3	TEST INSTRUMENTS	38
3.7.4	TEST PROCEDURES	38
3.7.5	DEVIATION FROM TEST STANDARD	39
3.7.6	EUT OPERATING CONDITION	39
3.7.7	TEST RESULTS	40
3.7.7.1	MAXIMUM PEAK OUTPUT POWER	40
3.8	OUT OF BAND MEASUREMENT	41
3.8.1	LIMITS OF OUT OF BAND MEASUREMENT	41
3.8.2	TEST INSTRUMENTS	41
3.8.3	TEST PROCEDURE	41
3.8.4	DEVIATION FROM TEST STANDARD	41
3.8.5	EUT OPERATING CONDITION	41



**BUREAU
VERITAS**

Test Report No.: W7L-P24050016RF01

3.8.6	TEST RESULTS	41
4	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	42
5	MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.....	43
6	APPENDIX	44



Test Report No.: W7L-P24050016RF01

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24050016RF01	Original release	Jul. 11, 2024



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Test Report No.: W7L-P24050016RF01

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C		
STANDARD	TEST TYPE AND LIMIT	RESULT
15.207	AC Power Conducted Emission	Compliance
15.247(a)(1) (iii)	Number of Hopping Frequency Used	Compliance
15.247(a)(1) (iii)	Dwell Time on Each Channel	Compliance
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	Compliance
15.247(b)	Maximum Peak Output Power	Compliance
15.247(d)& 15.209	Transmitter Radiated Emissions	Compliance
15.247(d)	Out of band Measurement	Compliance
15.203	Antenna Requirement	Compliance

NOTE:

1. If the Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.
2. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.



Test Report No.: W7L-P24050016RF01

Test Lab Information Reference:

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Lab Address:

Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen,
Guangdong, People's Republic of China

Accredited Test Lab Cert 3939.01



1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone
BRAND NAME	POCO
MODEL NAME	2410FPCC5G
NOMINAL VOLTAGE	5/3.6~11Vdc(adapter or host equipment) 3.84Vdc (Li-ion, battery)
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, 8DPSK, $\pi/4$ DQPSK
OPERATING FREQUENCY	2402MHz~2480MHz
NUMBER OF CHANNEL	79
MAX. OUTPUT POWER	11.25mW (Max. Measured)
ANTENNA TYPE	PIFA Antenna with 0.4dBi gain
HW VERSION	135100C3N
SW VERSION	Xiaomi HyperOS 1.0
IMEI	864624070035805
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable3: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable4: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable5: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable6: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable7: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable8: non-shielded cable, with w/o ferrite core, 1.0 meter

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



Test Report No.: W7L-P24050016RF01

2.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		



2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 4 photograph of the test configuration for reference.

2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X axis for radiated emission.

Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
-	√	√	√	√	-

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	78	FHSS	GFSK	1DH5

RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 39, 78	FHSS	GFSK	1DH5



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Test Report No.: W7L-P24050016RF01

POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	78	FHSS	8DPSK	3DH5

ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- The following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	FHSS	GFSK	DH1/DH3/DH5
0 to 78	0, 39, 78	FHSS	$\pi/4$ DQPSK	2DH1/2DH3/2DH5
0 to 78	0, 39, 78	FHSS	8DPSK	3DH1/3DH3/3DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	Jace Hu
RE≥1G	23deg. C, 70%RH	DC 5/3.6~11V By Adapter	Jace Hu
PLC	25deg. C, 52%RH	DC 5/3.6~11V By Adapter	Carl Xie
APCM	25deg. C, 60%RH	DC 3.84V By DC Supply	James Fu



Test Report No.: W7L-P24050016RF01

2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. Section 15.247
ANSI C63.10-2020

- NOTE:**
1. All test items have been performed and recorded as per the above standards.
 2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thinkpad L440	R90FTFKN	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m



3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 14,24	Feb. 13,25
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 10,24	Mar. 09,25

- NOTE:**
1. The test was performed in CE shielded room.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.1.3 TEST PROCEDURES

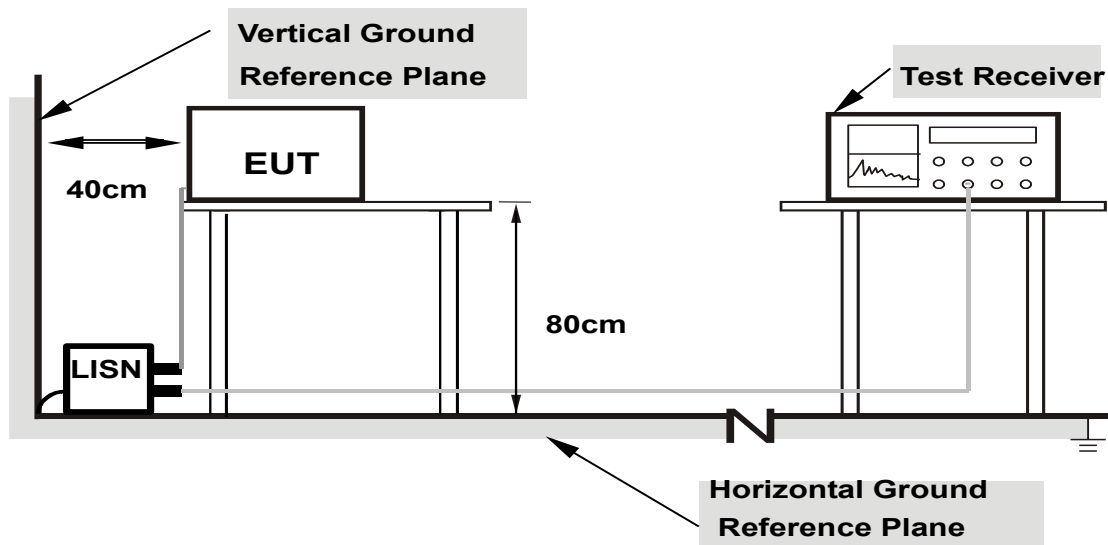
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

3.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



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Test Report No.: W7L-P24050016RF01

3.1.7 TEST RESULTS

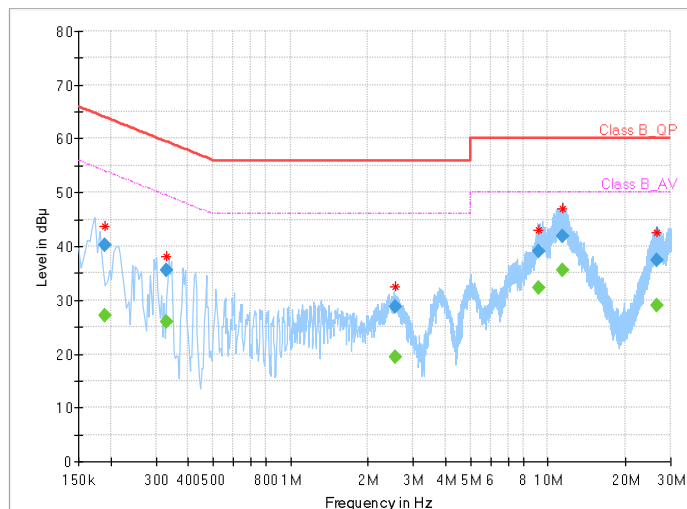
CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.190000	---	27.09	54.04	26.95	L1	ON	9.8
0.190000	40.14	---	64.04	23.90	L1	ON	9.8
0.328000	---	25.95	49.50	23.55	L1	ON	9.8
0.328000	35.64	---	59.50	23.86	L1	ON	9.8
2.540000	---	19.36	46.00	26.64	L1	ON	9.8
2.540000	28.79	---	56.00	27.21	L1	ON	9.8
9.212000	---	32.22	50.00	17.78	L1	ON	10.4
9.212000	39.04	---	60.00	20.96	L1	ON	10.4
11.364000	---	35.57	50.00	14.43	L1	ON	10.6
11.364000	41.96	---	60.00	18.04	L1	ON	10.6
26.516000	---	28.91	50.00	21.09	L1	ON	11.3
26.516000	37.51	---	60.00	22.49	L1	ON	11.3

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





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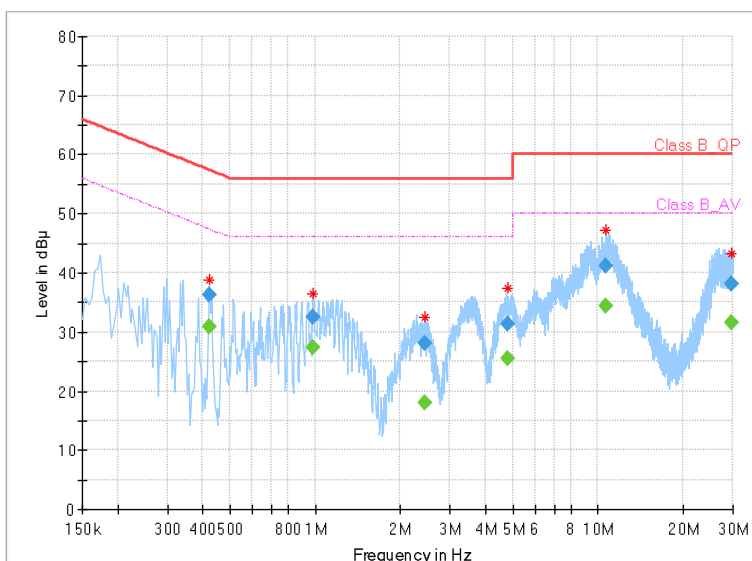
Test Report No.: W7L-P24050016RF01

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl xie		

Frequency (MHz)	QuasiPeak (dBUV)	CAverage (dBUV)	Limit (dBUV)	Margin (dB)	Line	Filter	Corr. (dB)
0.424000	---	30.97	47.37	16.40	N	ON	9.6
0.424000	36.18	---	57.37	21.19	N	ON	9.6
0.984000	---	27.27	46.00	18.73	N	ON	9.7
0.984000	32.47	---	56.00	23.53	N	ON	9.7
2.452000	---	18.03	46.00	27.97	N	ON	9.8
2.452000	28.18	---	56.00	27.82	N	ON	9.8
4.796000	---	25.51	46.00	20.49	N	ON	9.7
4.796000	31.29	---	56.00	24.71	N	ON	9.7
10.660000	---	34.44	50.00	15.56	N	ON	10.5
10.660000	41.06	---	60.00	18.94	N	ON	10.5
29.698000	---	31.64	50.00	18.37	N	ON	11.4
29.698000	38.23	---	60.00	21.77	N	ON	11.4

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





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Test Report No.: W7L-P24050016RF01

3.2 RADIATED EMISSION AND BANDEGE MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION AND BANDEGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

FREQUENCIES (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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



Test Report No.: W7L-P24050016RF01

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 06,24	May. 05,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb. 16,25
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 12,23	Aug. 11,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



Test Report No.: W7L-P24050016RF01

3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. 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 from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

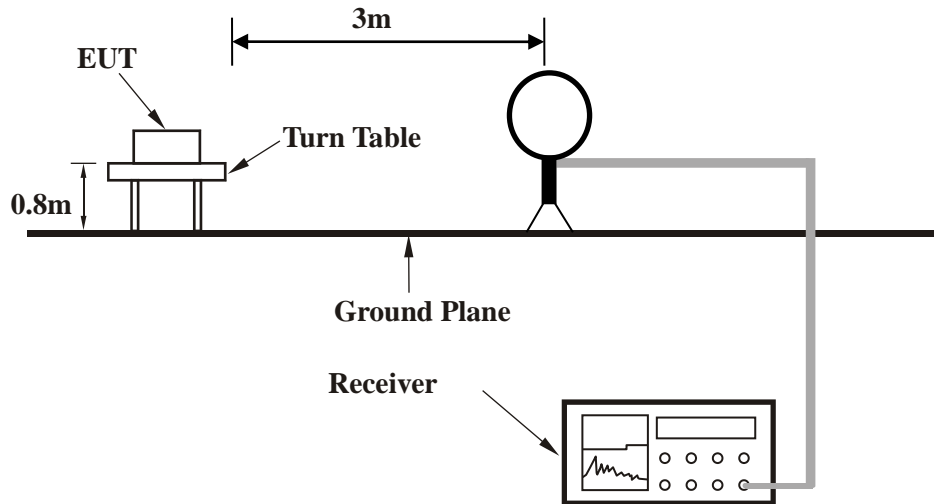
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

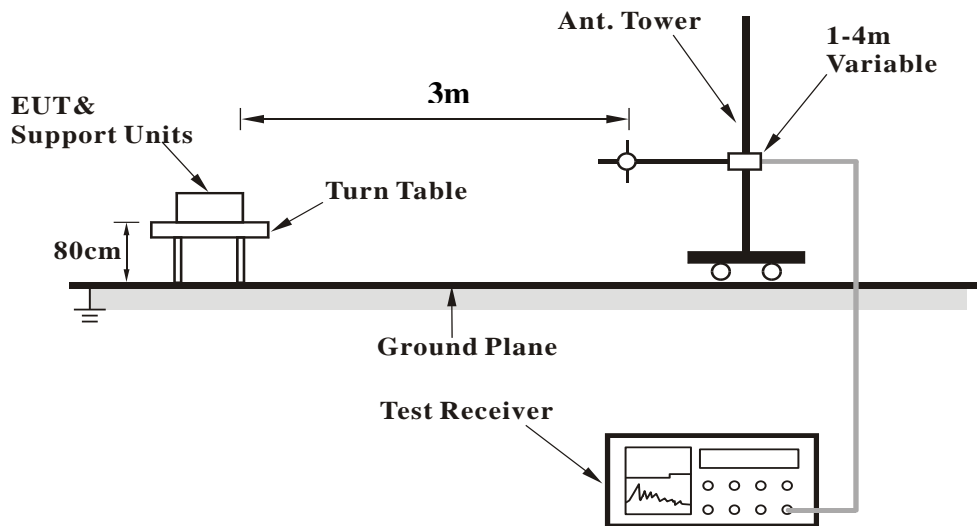
No deviation.

3.2.5 TEST SETUP

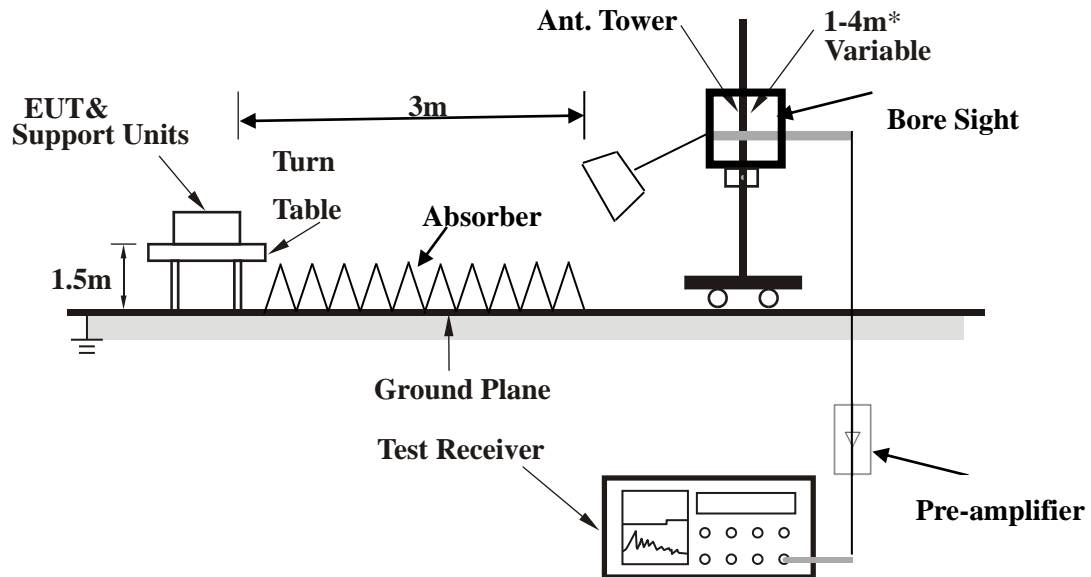
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



Test Report No.: W7L-P24050016RF01

3.2.6 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



Test Report No.: W7L-P24050016RF01

3.2.7 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

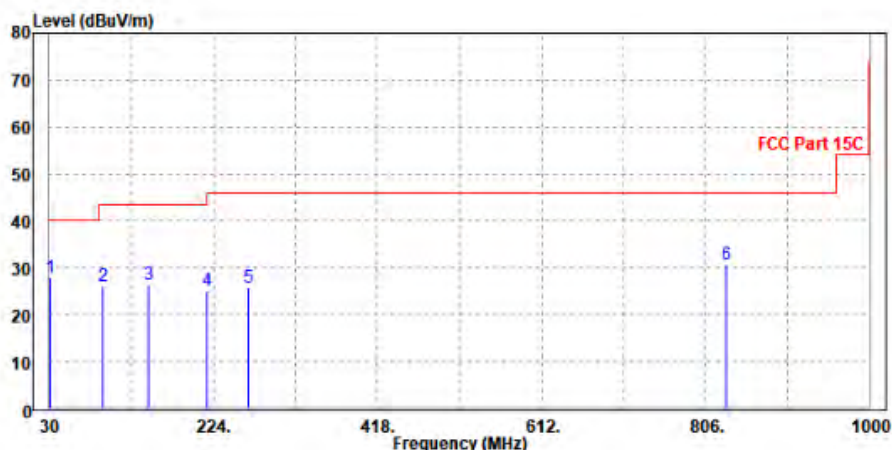
BT_GFSK

CHANNEL	Channel 78	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBUV/m)	READ LEVEL (dBUV)	LIMIT (dBUV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30.97	28.05	40.73	40	-11.95	24.61	0.14	37.43	100	360	Peak
94.02	26.08	49.05	43.5	-17.42	13.5	0.52	36.99	100	360	Peak
147.37	26.58	47.76	43.5	-16.92	14.77	0.78	36.73	100	360	Peak
216.24	25.25	44.05	46	-20.75	16.72	1.05	36.57	100	360	Peak
265.71	25.84	41.86	46	-20.16	19.37	1.2	36.59	100	360	Peak
830.25	30.82	36.33	46	-15.18	29.4	2.65	37.56	100	360	Peak

REMARKS:

1. Emission Level(dBUV/m) = Read Level(dBUV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





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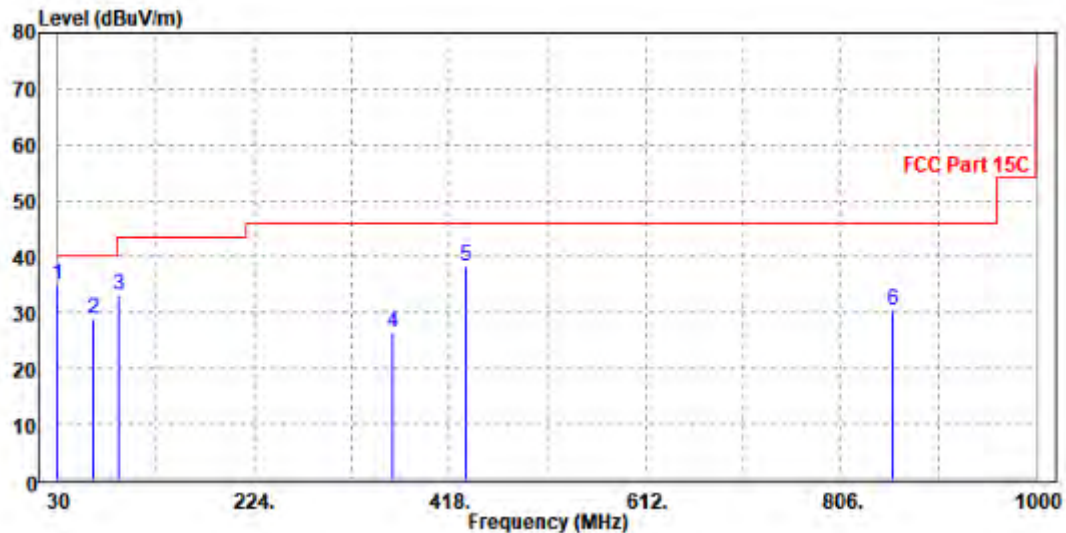
Test Report No.: W7L-P24050016RF01

CHANNEL	Channel 78	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30	35.11	47.42	40	-4.89	25	0.13	37.44	100	0	Peak
64.92	28.93	51.92	40	-11.07	14.02	0.34	37.35	100	0	Peak
90.14	33.16	56.72	43.5	-10.34	13	0.5	37.06	100	0	Peak
361.74	26.4	39.74	46	-19.6	21.83	1.47	36.64	100	0	Peak
434.49	38.36	50.58	46	-7.64	22.91	1.69	36.82	100	0	Peak
857.41	30.52	36.27	46	-15.48	29.15	2.7	37.6	100	0	Peak

REMARKS:

1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value





Test Report No.: W7L-P24050016RF01

ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing the full testing range of different modes have been scanned , only the worst case harmonic data is reported in the sheet.

2. All other emissions were greater than 20dB below the limit is not recorded

1GHz – 25GHz: (Scan with GFSK, π/4-DQPSK, 8DPSK mode, the worst case is GFSK Mode)

BT_GFSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.86	58.43	74.00	-23.14	30.80	7.74	46.11	100	190	Peak
2390	39.18	46.75	54.00	-14.82	30.80	7.74	46.11	100	190	Average
2402	103.80	111.10	/	/	31.06	7.75	46.11	100	190	Peak
2402	101.39	108.69	/	/	31.06	7.75	46.11	100	190	Average
2483.5	51.25	56.99	74.00	-22.75	32.47	7.88	46.09	100	190	Peak
2483.5	41.17	46.91	54.00	-12.83	32.47	7.88	46.09	100	190	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.99	59.00	74.00	-21.01	32.36	7.74	46.11	100	130	Peak
2390	40.71	46.72	54.00	-13.29	32.36	7.74	46.11	100	130	Average
2402	97.25	103.46	/	/	32.15	7.75	46.11	100	130	Peak
2402	94.51	100.72	/	/	32.15	7.75	46.11	100	130	Average
2483.5	51.40	58.28	74.00	-22.60	31.33	7.88	46.09	100	130	Peak
2483.5	40.09	46.97	54.00	-13.91	31.33	7.88	46.09	100	130	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2402MHz: Fundamental frequency.



Test Report No.: W7L-P24050016RF01

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	49.78	57.35	74.00	-24.22	30.80	7.74	46.11	100	190	Peak
2390	39.12	46.69	54.00	-14.88	30.80	7.74	46.11	100	190	Average
2441	105.44	111.42	/	/	32.31	7.81	46.10	100	190	Peak
2441	102.68	108.66	/	/	32.31	7.81	46.10	100	190	Average
2483.5	51.20	56.94	74.00	-22.80	32.47	7.88	46.09	100	190	Peak
2483.5	41.12	46.86	54.00	-12.88	32.47	7.88	46.09	100	190	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.31	56.32	74.00	-23.69	32.36	7.74	46.11	100	130	Peak
2390	40.66	46.67	54.00	-13.34	32.36	7.74	46.11	100	130	Average
2441	98.17	105.24	/	/	31.22	7.81	46.10	100	130	Peak
2441	95.47	102.54	/	/	31.22	7.81	46.10	100	130	Average
2483.5	49.42	56.30	74.00	-24.58	31.33	7.88	46.09	100	130	Peak
2483.5	40.00	46.88	54.00	-14.00	31.33	7.88	46.09	100	130	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2441MHz: Fundamental frequency.



Test Report No.: W7L-P24050016RF01

CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	50.84	58.41	74	-23.16	30.8	7.74	46.11	100	200	Peak
2390	40.07	47.64	54	-13.93	30.8	7.74	46.11	100	200	Average
2480	106.87	112.61	/	/	32.48	7.87	46.09	100	200	Peak
2480	104.5	110.24	/	/	32.48	7.87	46.09	100	200	Average
2483.5	53.25	58.99	74	-20.75	32.47	7.88	46.09	100	200	Peak
2483.5	42.34	48.08	54	-11.66	32.47	7.88	46.09	100	200	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.93	57.94	74	-22.07	32.36	7.74	46.11	100	60	Peak
2390	41.08	47.09	54	-12.92	32.36	7.74	46.11	100	60	Average
2480	97.96	104.88	/	/	31.3	7.87	46.09	100	60	Peak
2480	95.43	102.35	/	/	31.3	7.87	46.09	100	60	Average
2483.5	50.61	57.49	74	-23.39	31.33	7.88	46.09	100	60	Peak
2483.5	40.18	47.06	54	-13.82	31.33	7.88	46.09	100	60	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2480MHz: Fundamental frequency.



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Test Report No.: W7L-P24050016RF01

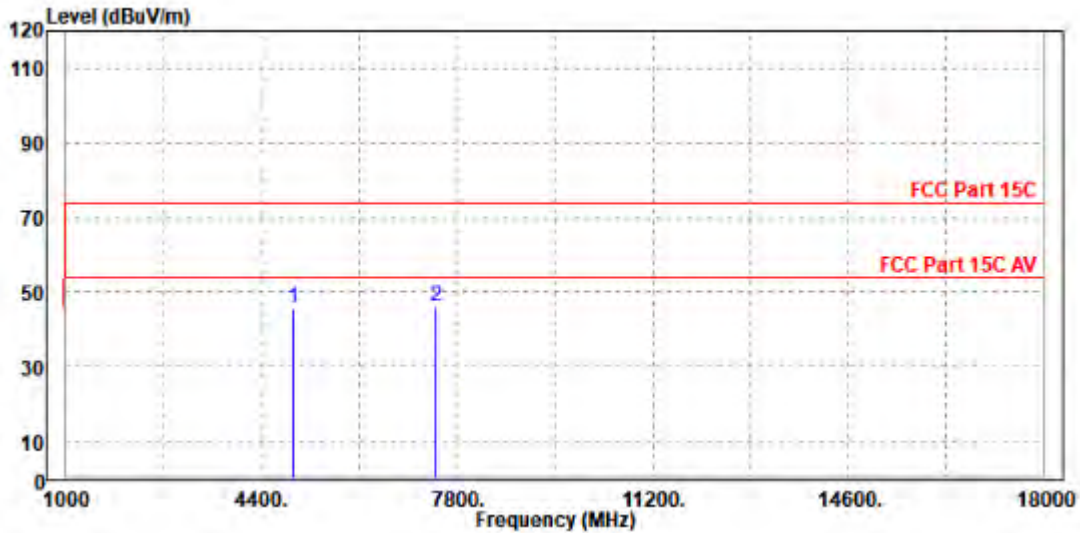
Worst case harmonic:

BT_GFSK

CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4961.000	45.52	47.25	74.00	-28.48	-1.73	Peak	Horizontal
2 PP	7440.000	46.23	43.81	74.00	-27.77	2.42	Peak	Horizontal

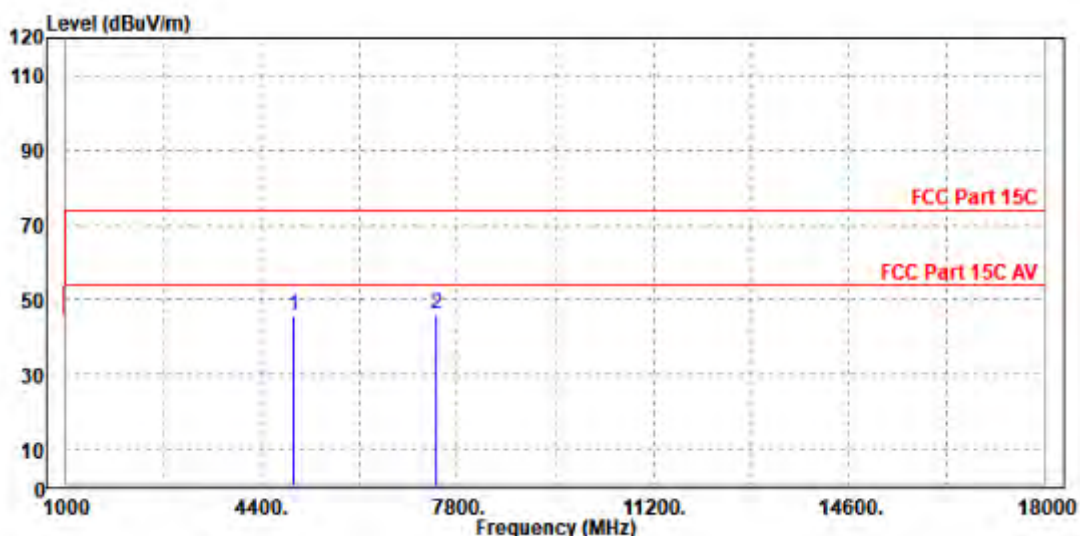




Test Report No.: W7L-P24050016RF01

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	4960.000	45.73	47.70	74.00	-28.27	-1.97	Peak	Vertical
2	PP 7443.000	46.14	43.77	74.00	-27.86	2.37	Peak	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2480MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

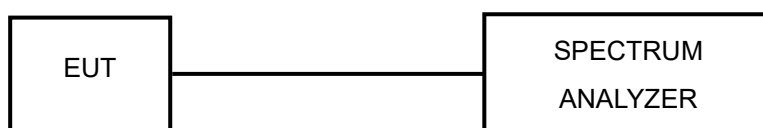


3.3 NUMBER OF HOPPING FREQUENCY USED

3.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

3.3.2 TEST SETUP



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 14,24	Feb. 13,25
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 14,24	Feb. 13,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 14,24	Feb. 13,25

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.



Test Report No.: W7L-P24050016RF01

3.3.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were completed.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next two pages for the test result. On the plots, it shows that the hopping frequencies are equally spaced.

Please Refer to Appendix Of this test report.

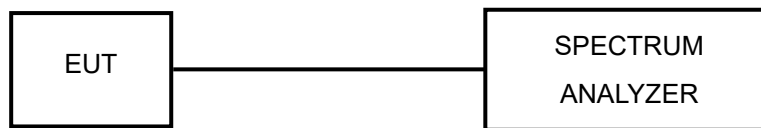


3.4 DWELL TIME ON EACH CHANNEL

3.4.1 LIMIT OF DWELL TIME USED

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.



Test Report No.: W7L-P24050016RF01

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 TEST RESULTS

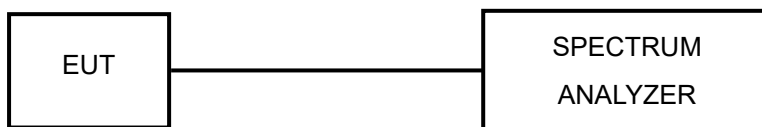
Please Refer to Appendix Of this test report.

3.5 CHANNEL BANDWIDTH

3.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.



Test Report No.: W7L-P24050016RF01

3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.5.7 TEST RESULTS

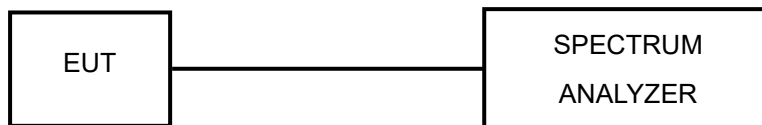
Please Refer to Appendix Of this test report.

3.6 HOPPING CHANNEL SEPARATION

3.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.6.4 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
3. By using the MaxHold function record the separation of two adjacent channels.
4. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 TEST RESULTS

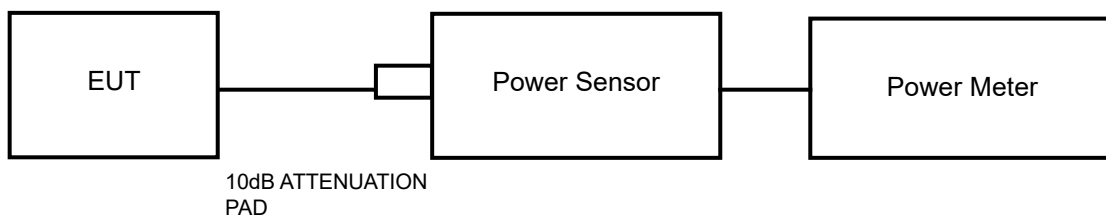
Please Refer to Appendix Of this test report.

3.7 MAXIMUM OUTPUT POWER

3.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

3.7.2 TEST SETUP



3.7.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.7.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.



Test Report No.: W7L-P24050016RF01

3.7.5 DEVIATION FROM TEST STANDARD

No deviation.

3.7.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



Test Report No.: W7L-P24050016RF01

3.7.7 TEST RESULTS

3.7.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix Of this test report.



Test Report No.: W7L-P24050016RF01

3.8 OUT OF BAND MEASUREMENT

3.8.1 LIMITS OF OUT OF BAND MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

3.8.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

3.8.4 DEVIATION FROM TEST STANDARD

No deviation.

3.8.5 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.8.6 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix Of this test report.



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Test Report No.: W7L-P24050016RF01

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



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6 APPENDIX

BT

20DB EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.837	2401.562	2402.399	---	---
		2441	0.915	2440.544	2441.459	---	---
		2480	0.930	2479.538	2480.468	---	---
2DH5	Ant1	2402	1.290	2401.352	2402.642	---	---
		2441	1.287	2440.352	2441.639	---	---
		2480	1.290	2479.352	2480.642	---	---
3DH5	Ant1	2402	1.311	2401.337	2402.648	---	---
		2441	1.293	2440.346	2441.639	---	---
		2480	1.293	2479.340	2480.633	---	---

TEST GRAPHS

DH5_Ant1_2402



DH5_Ant1_2441

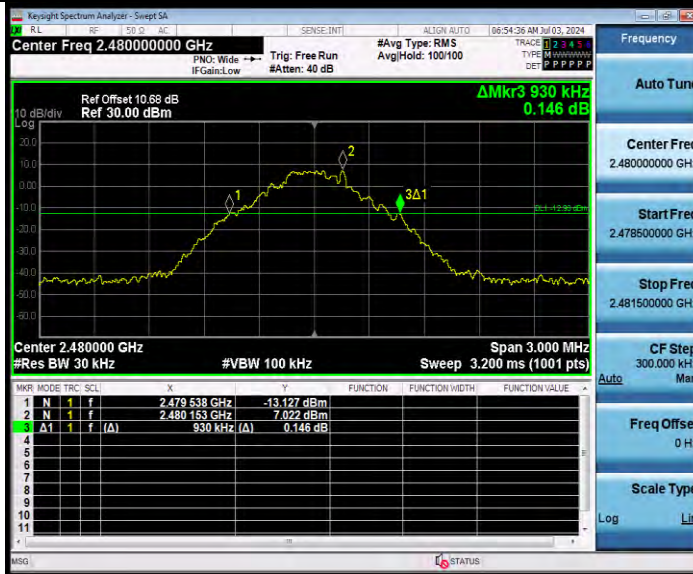


DH5_Ant1_2480



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2DH5_Ant1_2402



2DH5_Ant1_2441

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2DH5_Ant1_2480



3DH5_Ant1_2402

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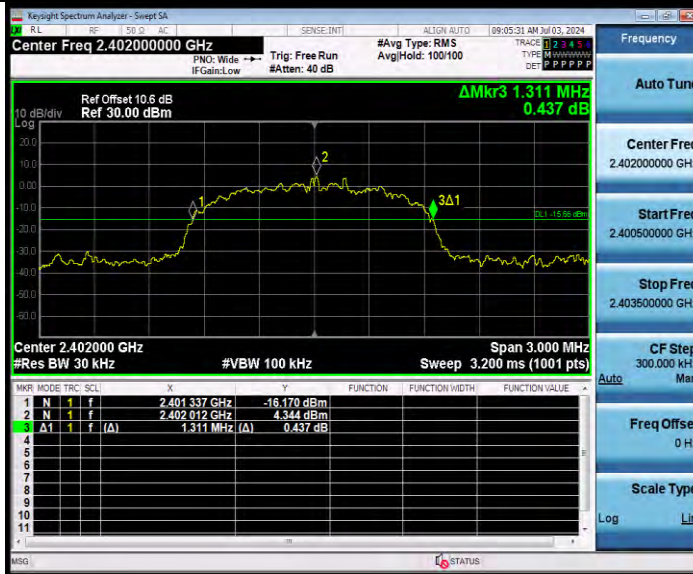
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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3DH5_Ant1_2441



3DH5_Ant1_2480



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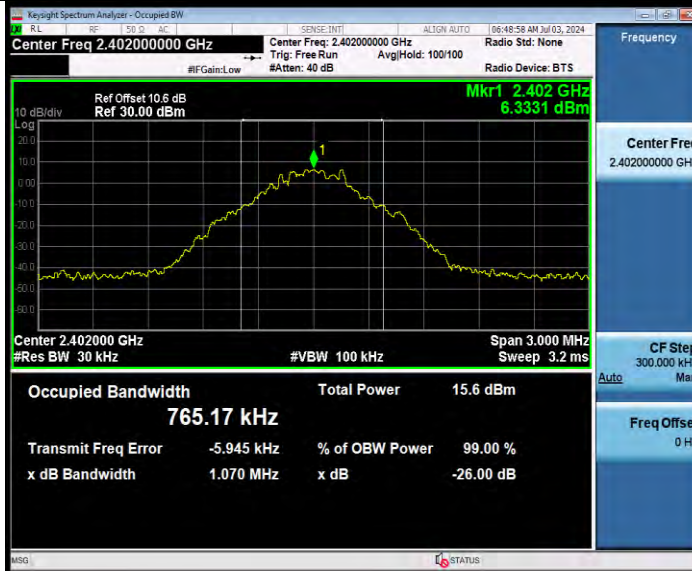
Test Report No.: W7L-P24050016RF01

OCCUPIED CHANNEL BANDWIDTH TEST RESULT

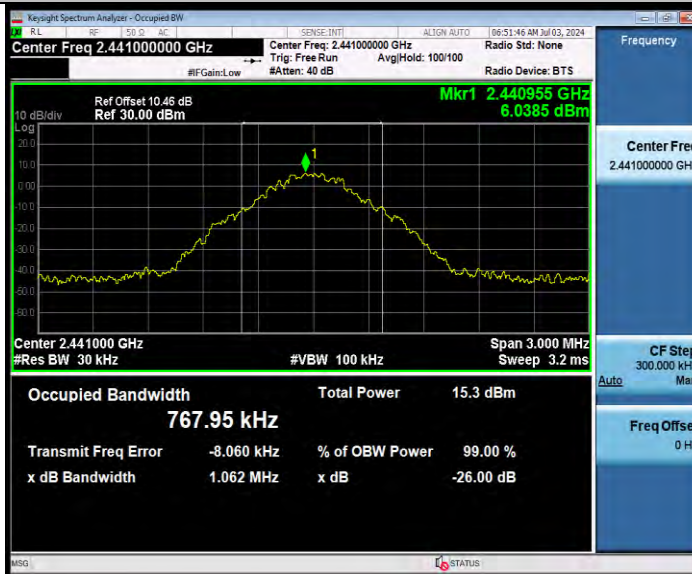
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.76517	2401.6115	2402.3766	---	---
		2441	0.76795	2440.6080	2441.3759	---	---
		2480	0.76456	2479.6075	2480.3721	---	---
2DH5	Ant1	2402	1.1776	2401.3963	2402.5739	---	---
		2441	1.1686	2440.4066	2441.5752	---	---
		2480	1.1772	2479.3973	2480.5745	---	---
3DH5	Ant1	2402	1.1864	2401.3969	2402.5833	---	---
		2441	1.1794	2440.4034	2441.5828	---	---
		2480	1.1820	2479.3997	2480.5817	---	---

TEST GRAPHS

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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Test Report No.: W7L-P24050016RF01



2DH5_Ant1_2402



2DH5_Ant1_2441

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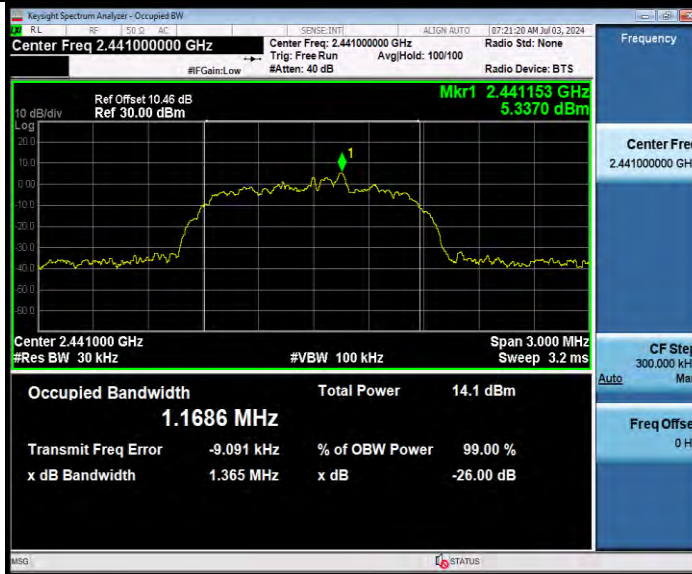
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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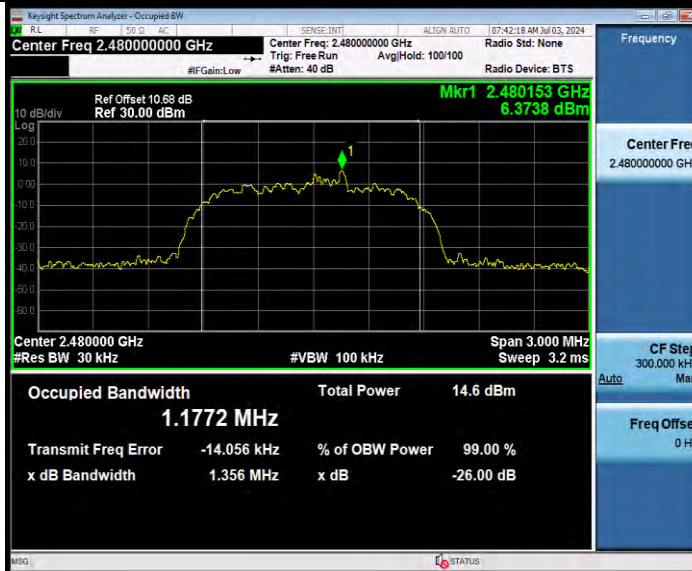


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2DH5_Ant1_2480



3DH5_Ant1_2402

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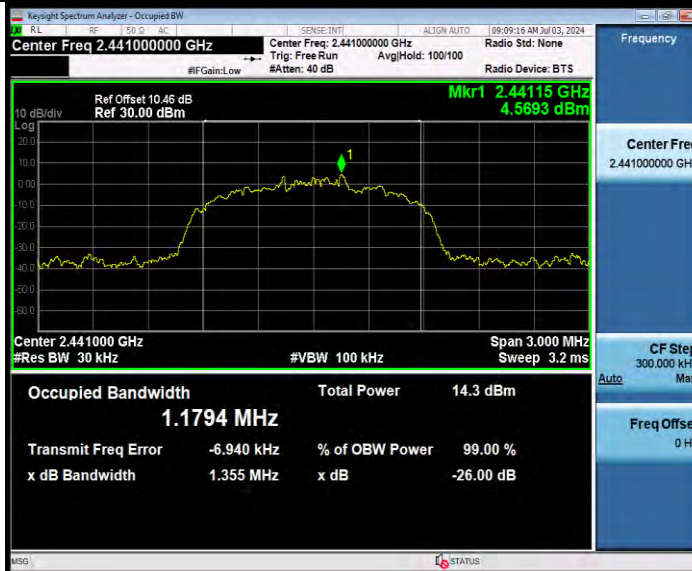


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3DH5_Ant1_2441

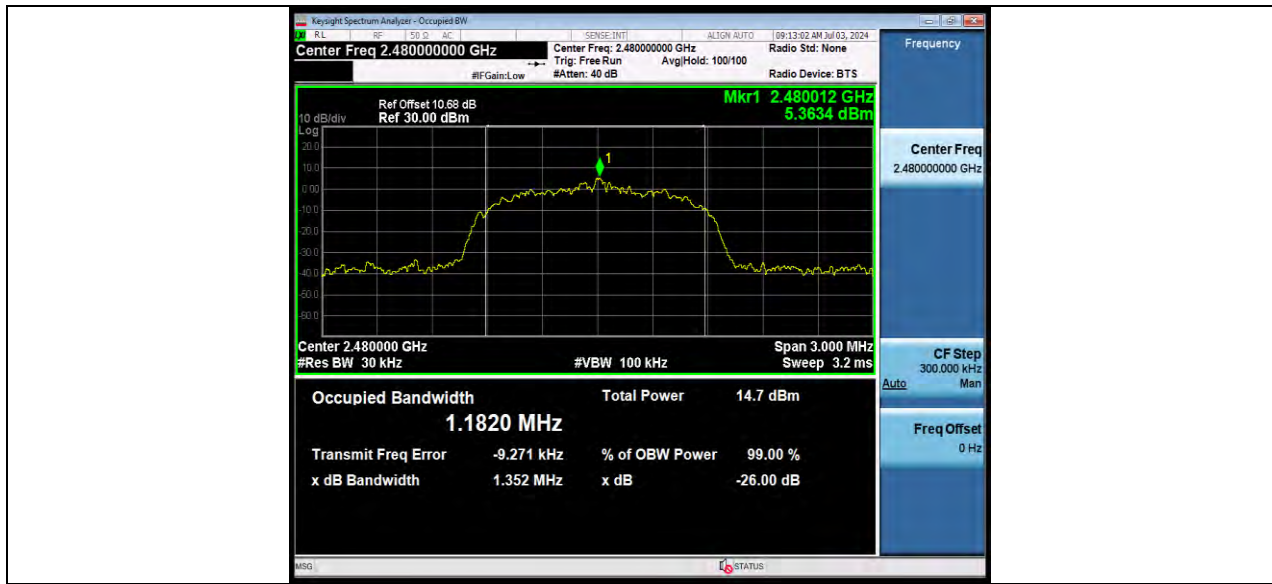


3DH5_Ant1_2480



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Test Report No.: W7L-P24050016RF01

MAXIMUM CONDUCTED OUTPUT POWER TEST RESULT

TestMode	Antenna	Frequency [MHz]	Average power [dBm]	Peak Power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
DH5	Ant1	2402	8.55	8.96	7.87	≤30	9.36	8.63	≤36.00	PASS	Default
		2441	6.39	6.59	4.56	≤30	6.99	5.00	≤36.00	PASS	Default
		2480	9.98	10.34	10.81	≤30	10.74	11.86	≤36.00	PASS	Default
2DH5	Ant1	2402	6.55	9.05	8.04	≤20.97	9.45	8.81	≤36.00	PASS	Default
		2441	3.01	5.78	3.78	≤20.97	6.18	4.15	≤36.00	PASS	Default
		2480	8.14	10.51	11.25	≤20.97	10.91	12.33	≤36.00	PASS	Default
3DH5	Ant1	2402	6.53	8.89	7.74	≤20.97	9.29	8.49	≤36.00	PASS	Default
		2441	2.91	5.71	3.72	≤20.97	6.11	4.08	≤36.00	PASS	Default
		2480	8.14	10.38	10.91	≤20.97	10.78	11.97	≤36.00	PASS	Default

Note: EIRP=Peak Power+Gain



Test Report No.: W7L-P24050016RF01

CARRIER FREQUENCY SEPARATION

TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥ 0.930	PASS
2DH5	Ant1	Hop	1.148	≥ 0.860	PASS
3DH5	Ant1	Hop	1.156	≥ 0.874	PASS

TEST GRAPHS

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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TIME OF OCCUPANCY TEST RESULT

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.376	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.633	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.635	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.634	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS

NOTE: TotalHops = $[1600 / (\text{Send and receive Number} * 79)] * 0.4 * 79$;

Send and receive Number : DH1/2DH1/3DH1=2; DH3/2DH3/3DH3=4; DH5/2DH5/3DH5=6

TEST GRAPHS

DH1_Ant1_Hop



DH3_Ant1_Hop



DH5_Ant1_Hop

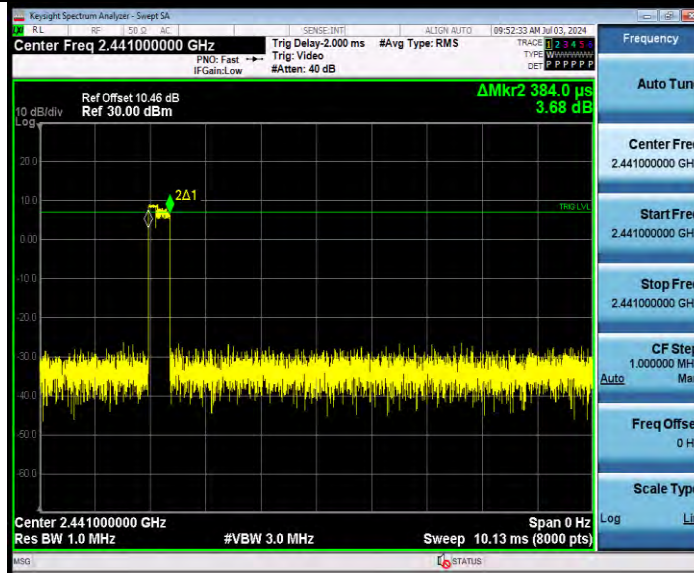


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2DH1_Ant1_Hop

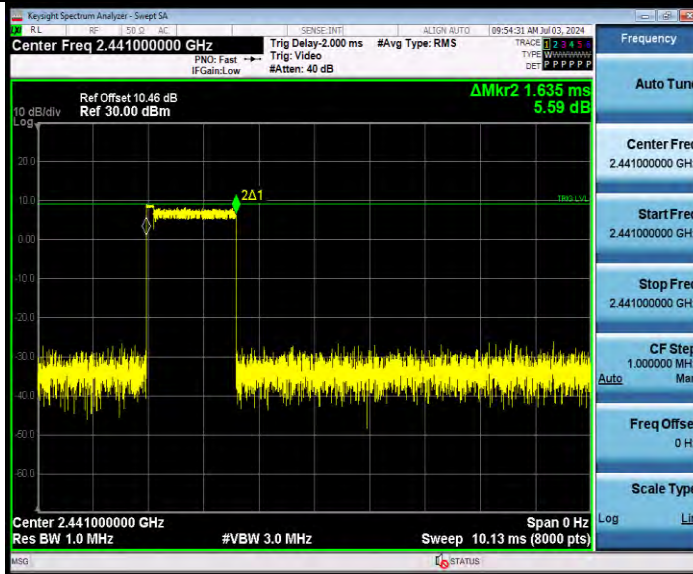


2DH3_Ant1_Hop

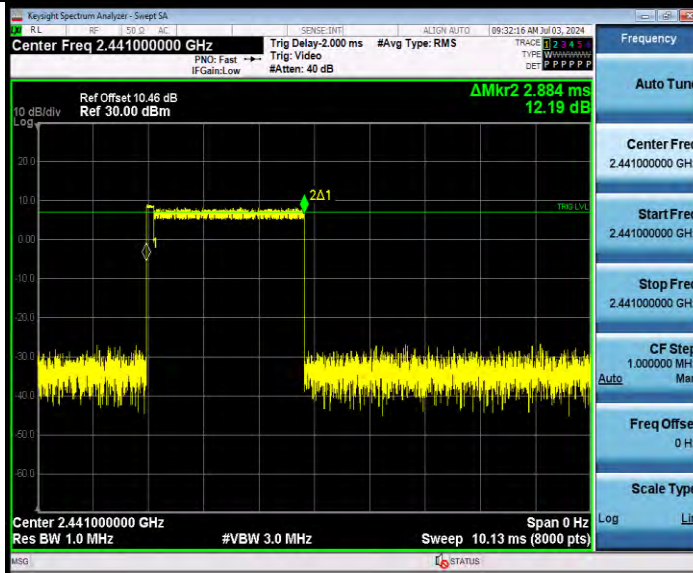


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2DH5_Ant1_Hop



3DH1_Ant1_Hop

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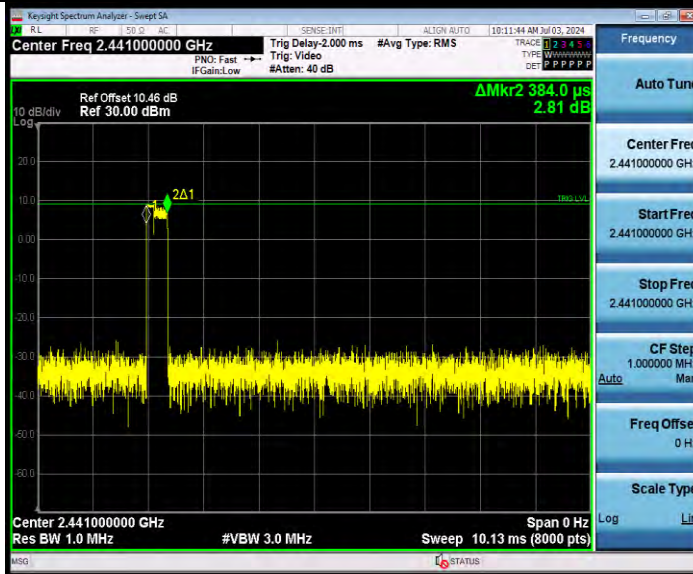
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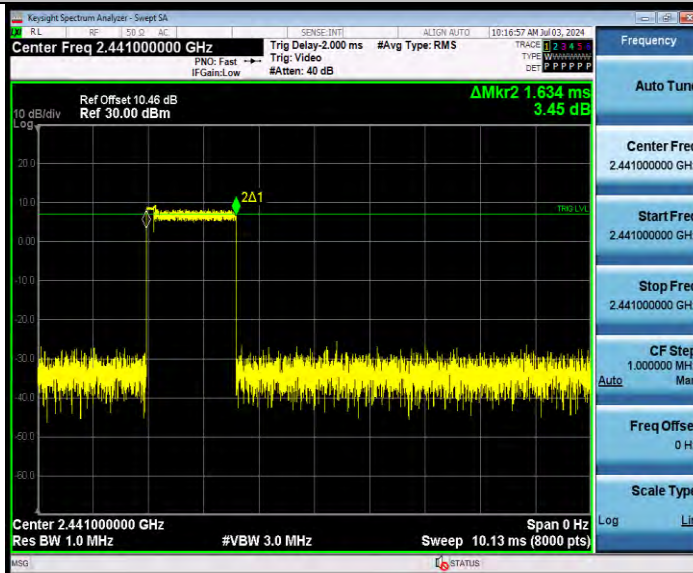


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3DH3_Ant1_Hop



3DH5_Ant1_Hop

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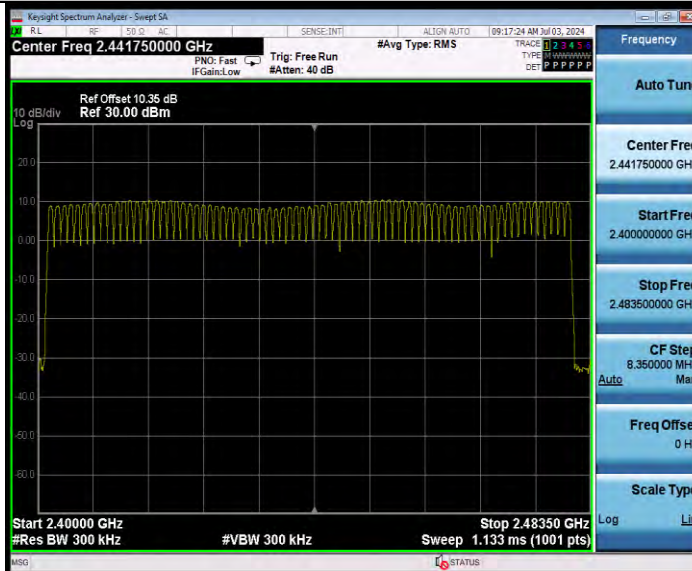
Test Report No.: W7L-P24050016RF01

NUMBER OF HOPPING CHANNELS TEST RESULT

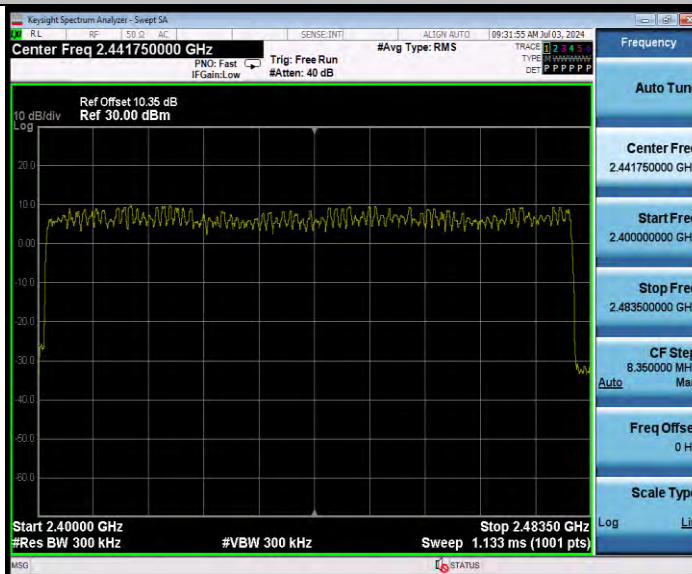
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

TEST GRAPHS

DH5_Ant1_Hop



2DH5_Ant1_Hop

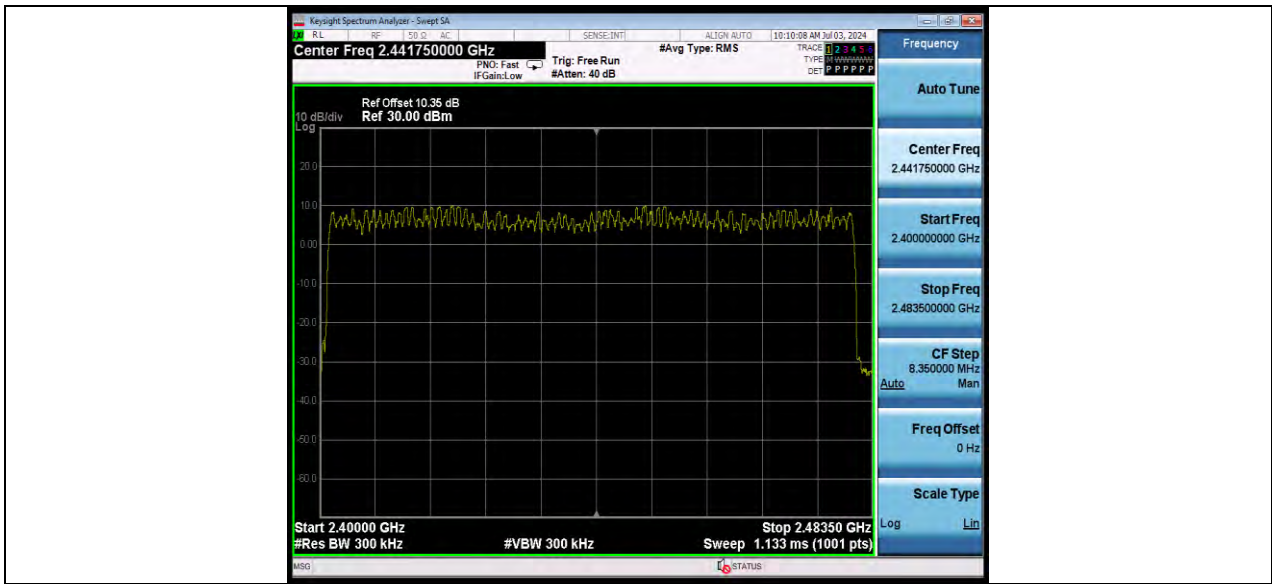


3DH5_Ant1_Hop



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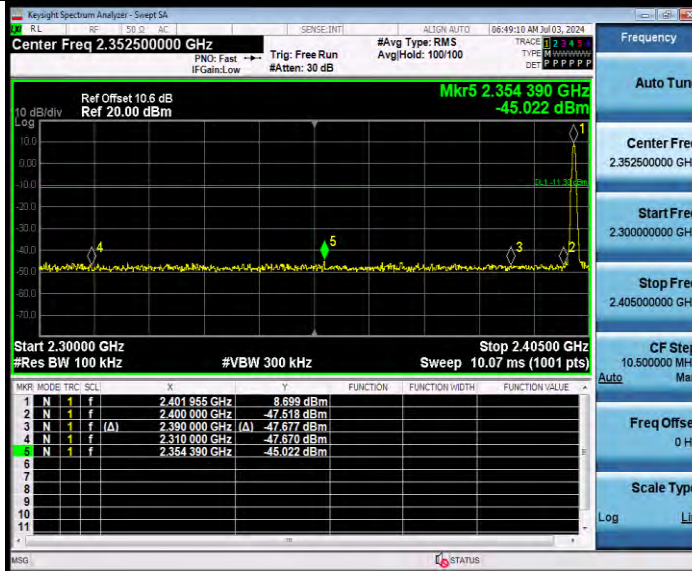
BAND EDGE MEASUREMENTS

TEST RESULT

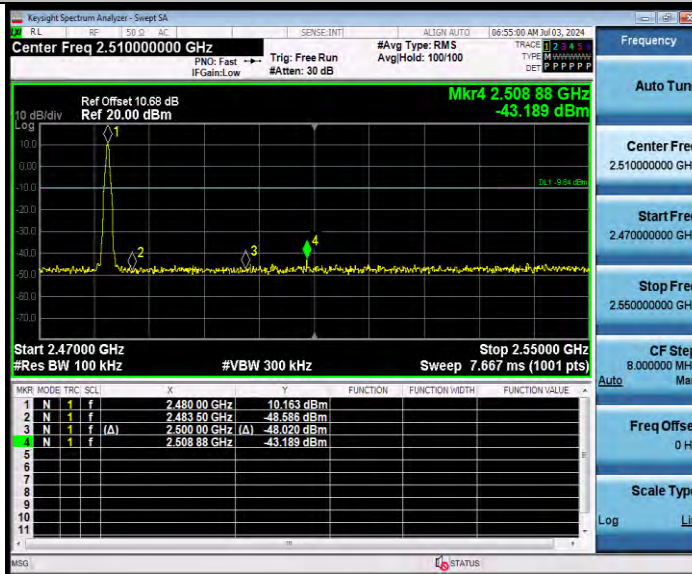
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	8.70	-45.02	≤-11.3	PASS
		High	2480	10.16	-43.19	≤-9.84	PASS
		Low	Hop_2402	7.97	-45.29	≤-12.04	PASS
		High	Hop_2480	9.15	-44.41	≤-10.85	PASS
2DH5	Ant1	Low	2402	7.77	-41.84	≤-12.23	PASS
		High	2480	8.70	-44.87	≤-11.3	PASS
		Low	Hop_2402	3.89	-45.24	≤-16.11	PASS
		High	Hop_2480	3.69	-44.54	≤-16.31	PASS
3DH5	Ant1	Low	2402	8.43	-43.54	≤-11.57	PASS
		High	2480	8.87	-44.08	≤-11.14	PASS
		Low	Hop_2402	5.45	-44.98	≤-14.55	PASS
		High	Hop_2480	4.90	-44.45	≤-15.1	PASS

TEST GRAPHS

DH5_Ant1_Low_2402



DH5_Ant1_High_2480

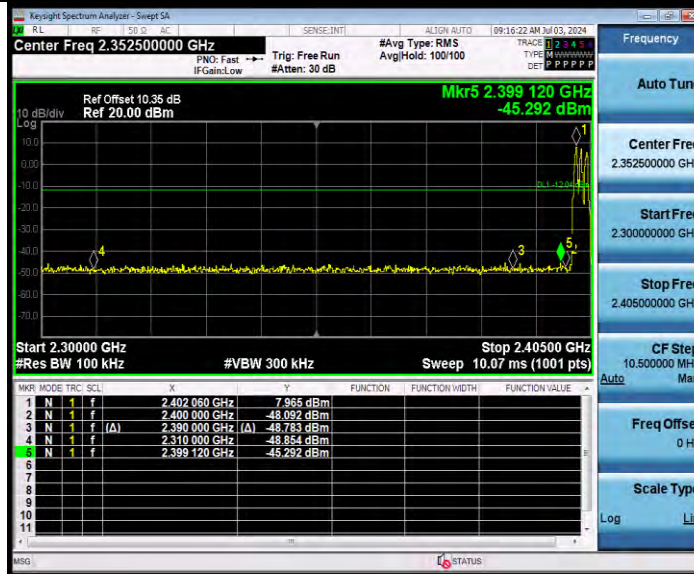


DH5_Ant1_Low_Hop_2402

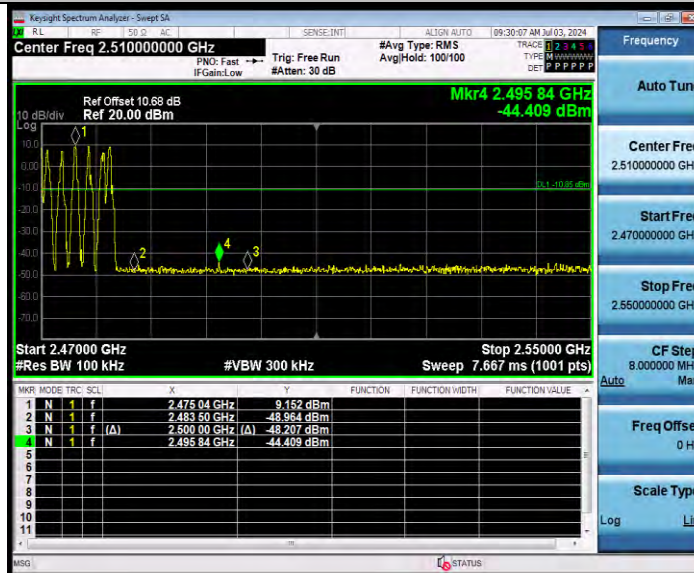


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DH5_Ant1_High_Hop_2480

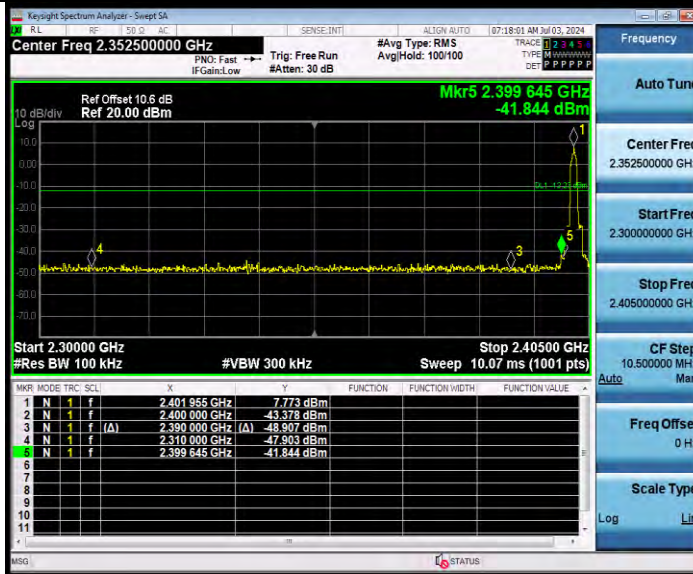


2DH5_Ant1_Low_2402

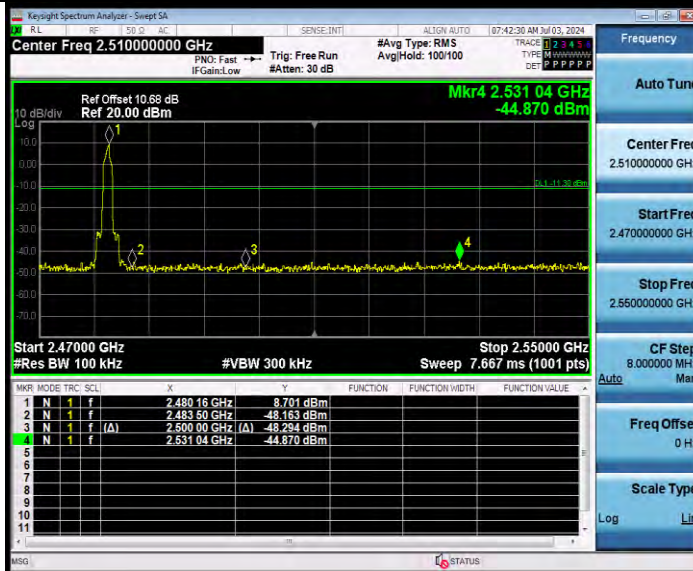


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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

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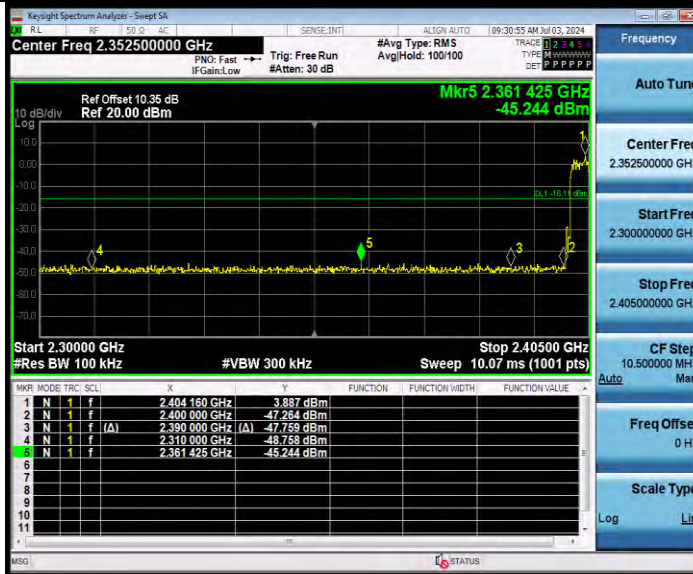
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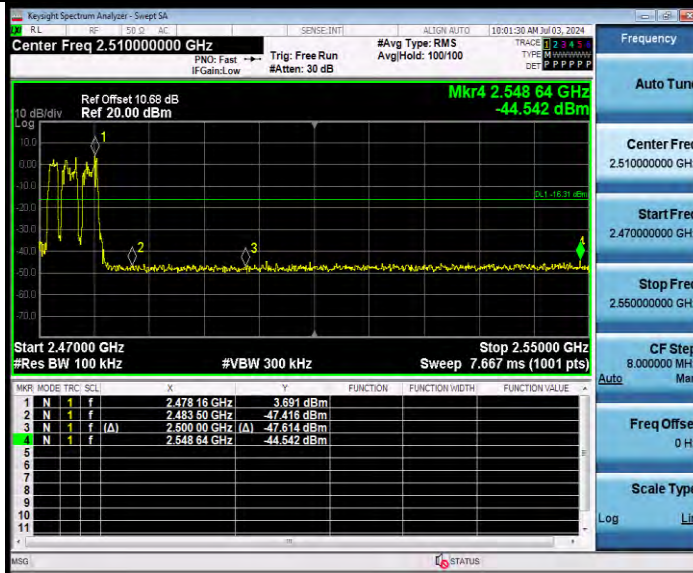


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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

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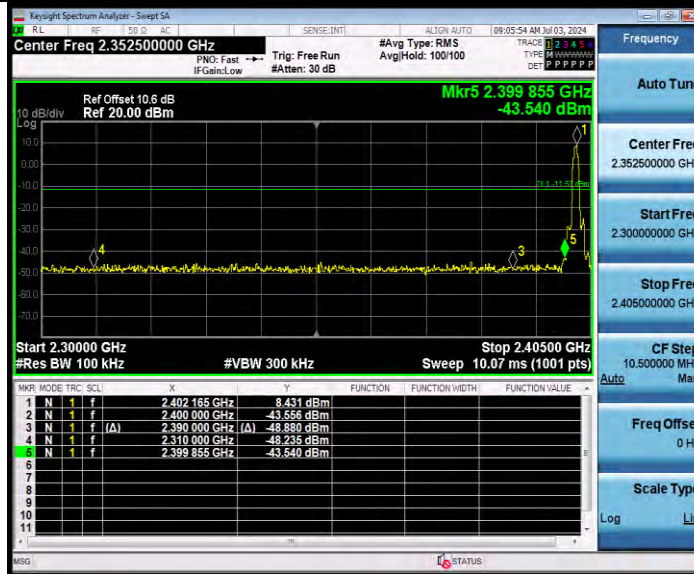
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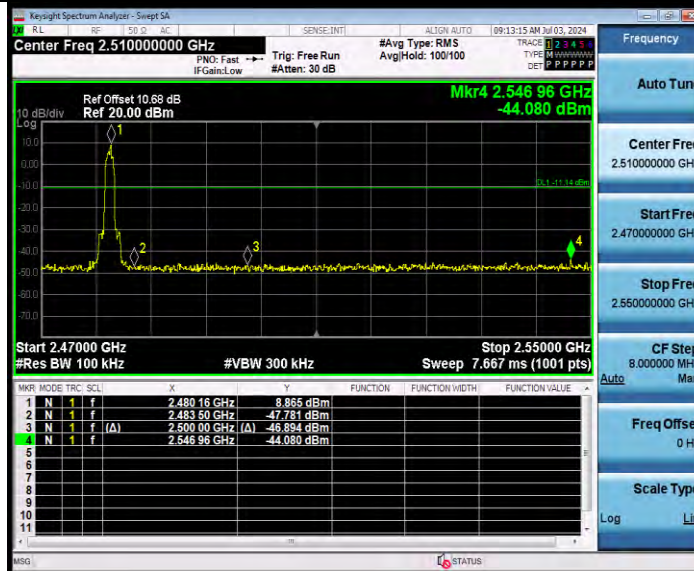


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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

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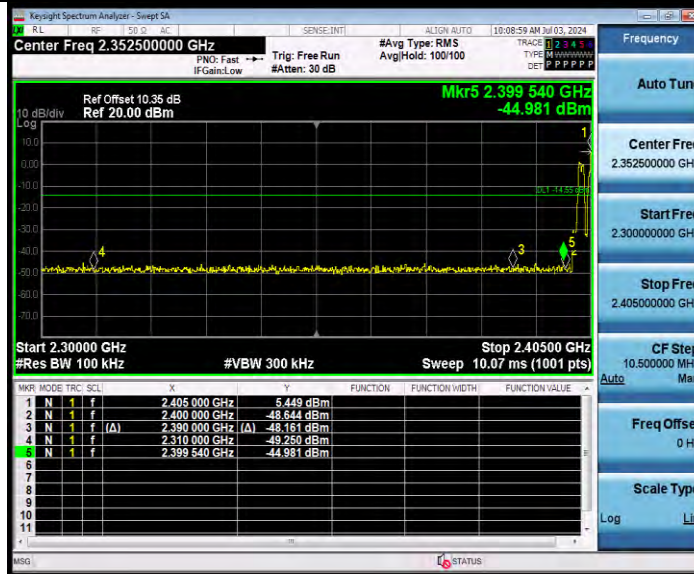
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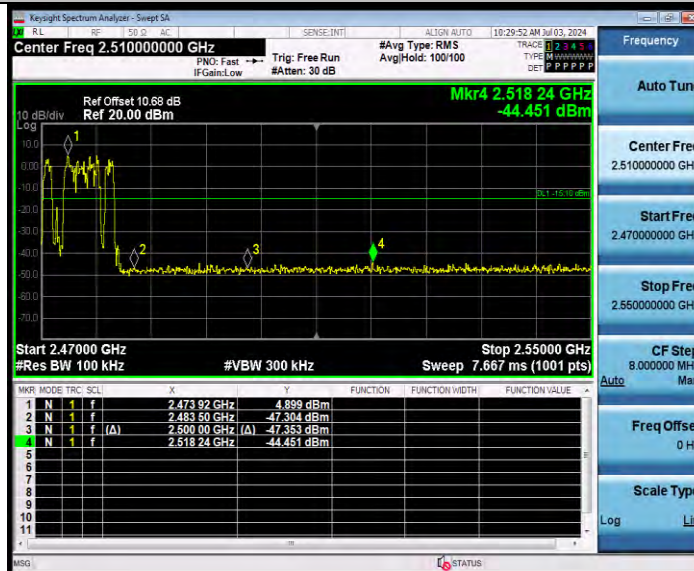


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3DH5_Ant1_High_Hop_2480



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CONDUCTED SPURIOUS EMISSION TEST RESULT

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	8.23	8.23	---	PASS
			30~1000	8.23	-64.17	≤-11.77	PASS
			1000~26500	8.23	-44.88	≤-11.77	PASS
		2441	Reference	7.85	7.85	---	PASS
			30~1000	7.85	-64.36	≤-12.15	PASS
			1000~26500	7.85	-44.94	≤-12.15	PASS
		2480	Reference	9.35	9.35	---	PASS
			30~1000	9.35	-64.3	≤-10.65	PASS
			1000~26500	9.35	-44.96	≤-10.65	PASS
2DH5	Ant1	2402	Reference	7.66	7.66	---	PASS
			30~1000	7.66	-63.63	≤-12.34	PASS
			1000~26500	7.66	-44.5	≤-12.34	PASS
		2441	Reference	6.75	6.75	---	PASS
			30~1000	6.75	-64.61	≤-13.25	PASS
			1000~26500	6.75	-44.97	≤-13.25	PASS
		2480	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-63.69	≤-14.68	PASS
			1000~26500	5.32	-45.26	≤-14.68	PASS
3DH5	Ant1	2402	Reference	6.49	6.49	---	PASS
			30~1000	6.49	-63.67	≤-13.51	PASS
			1000~26500	6.49	-45.03	≤-13.51	PASS
		2441	Reference	8.21	8.21	---	PASS
			30~1000	8.21	-64.06	≤-11.79	PASS
			1000~26500	8.21	-44.81	≤-11.79	PASS
		2480	Reference	5.29	5.29	---	PASS
			30~1000	5.29	-64.22	≤-14.71	PASS
			1000~26500	5.29	-44.5	≤-14.71	PASS

TEST GRAPHS

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



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Test Report No.: W7L-P24050016RF01



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

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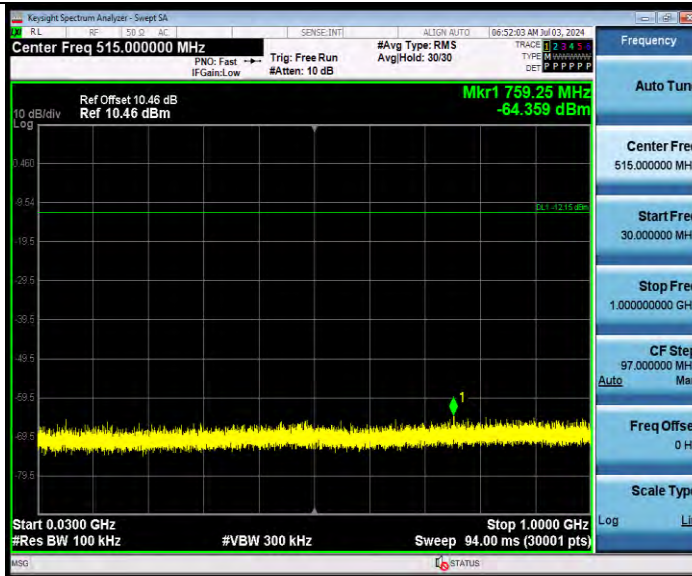
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

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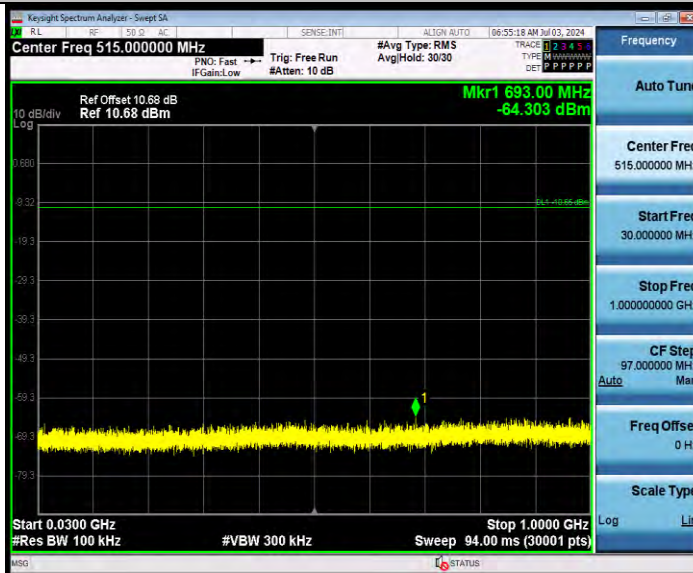


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Test Report No.: W7L-P24050016RF01



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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Test Report No.: W7L-P24050016RF01



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

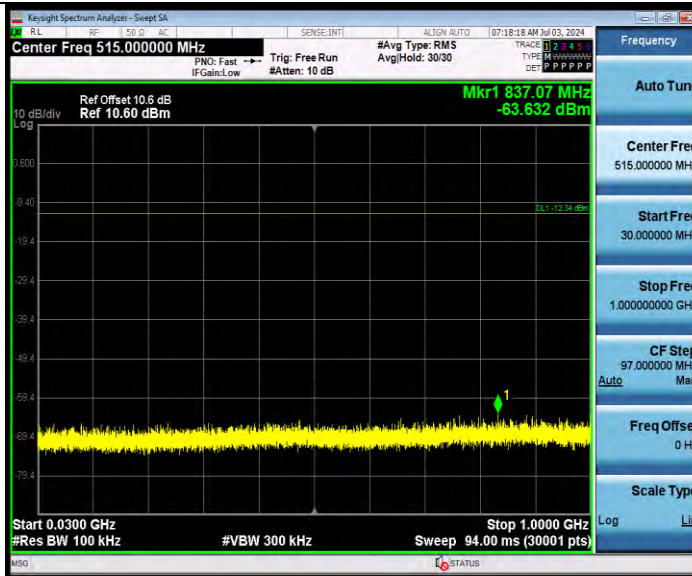
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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Test Report No.: W7L-P24050016RF01



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



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Test Report No.: W7L-P24050016RF01



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

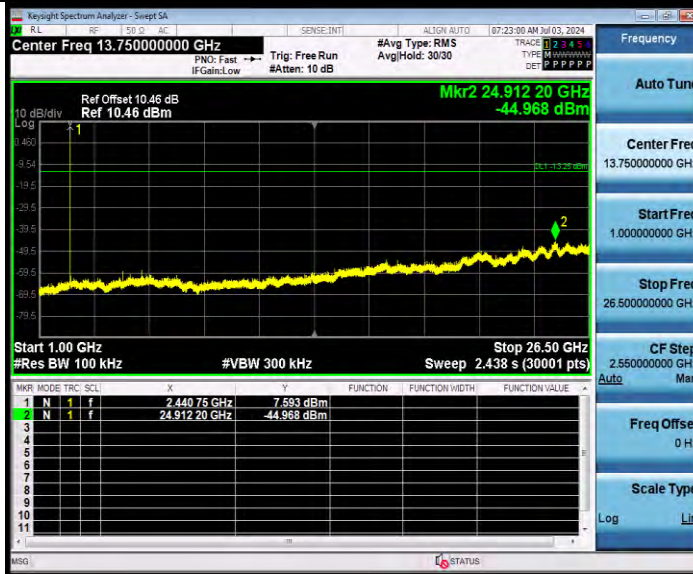
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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Test Report No.: W7L-P24050016RF01



2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

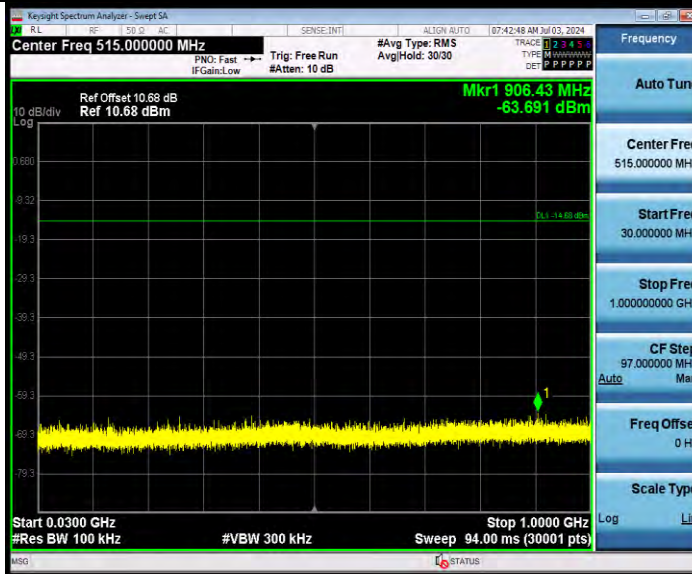
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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Test Report No.: W7L-P24050016RF01



2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

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(Shenzhen) Co., Ltd

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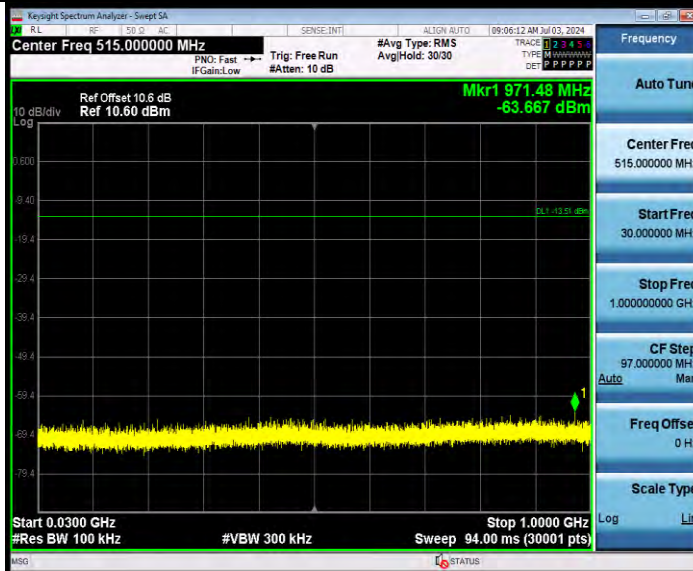


BUREAU VERITAS

Test Report No.: W7L-P24050016RF01



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BV 7Layers Communications Technology (Shenzhen) Co., Ltd

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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

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Test Report No.: W7L-P24050016RF01



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

BV 7Layers Communications Technology
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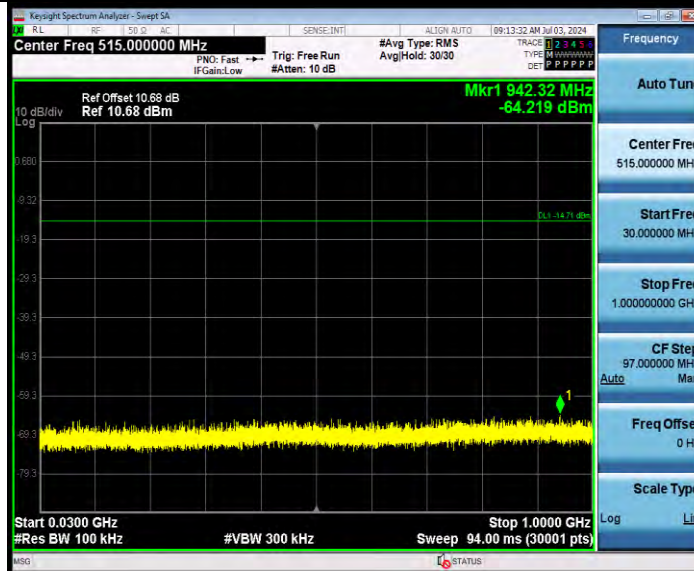


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VERITAS

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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

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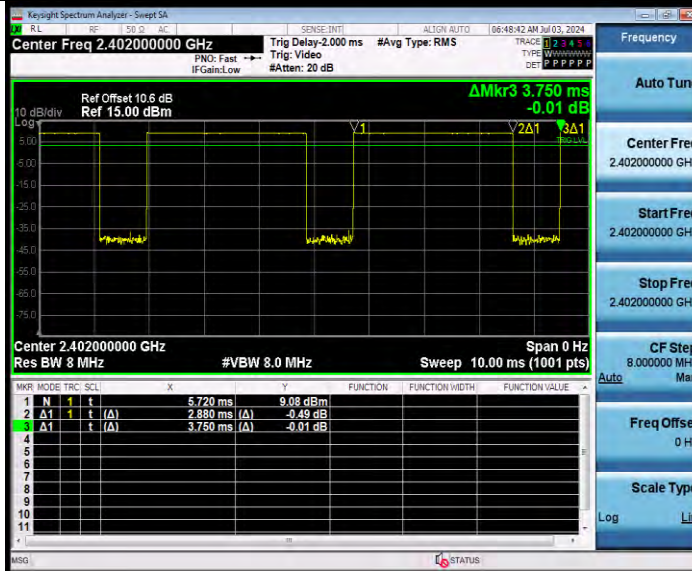
DUTY CYCLE

TEST RESULT

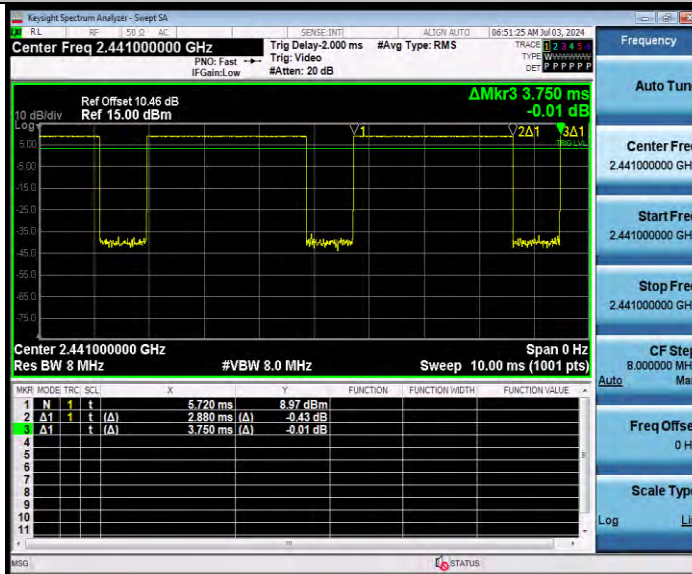
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		2441	2.88	3.75	76.80	1.15
		2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.90	3.75	77.33	1.12
		2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13

TEST GRAPHS

DH5_Ant1_2402



DH5_Ant1_2441

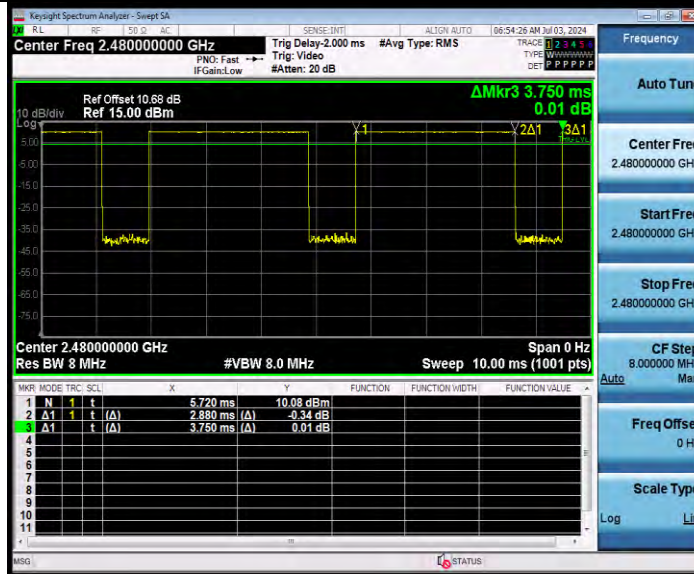


DH5_Ant1_2480

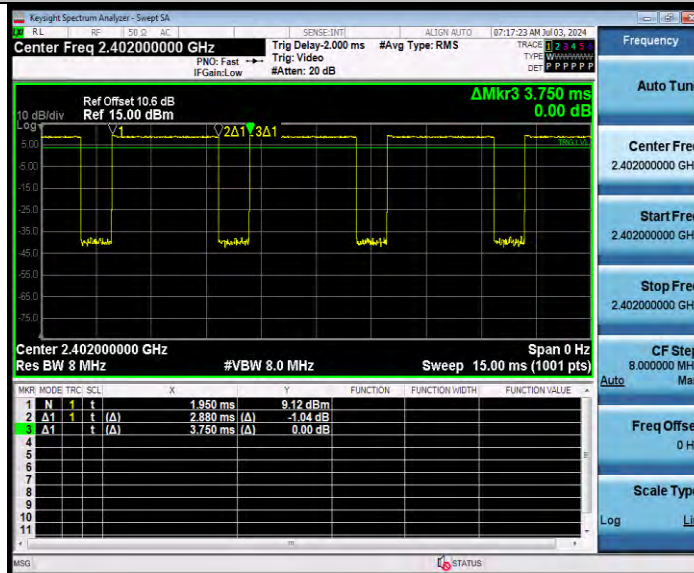


BUREAU VERITAS

Test Report No.: W7L-P24050016RF01



2DH5_Ant1_2402



2DH5_Ant1_2441

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

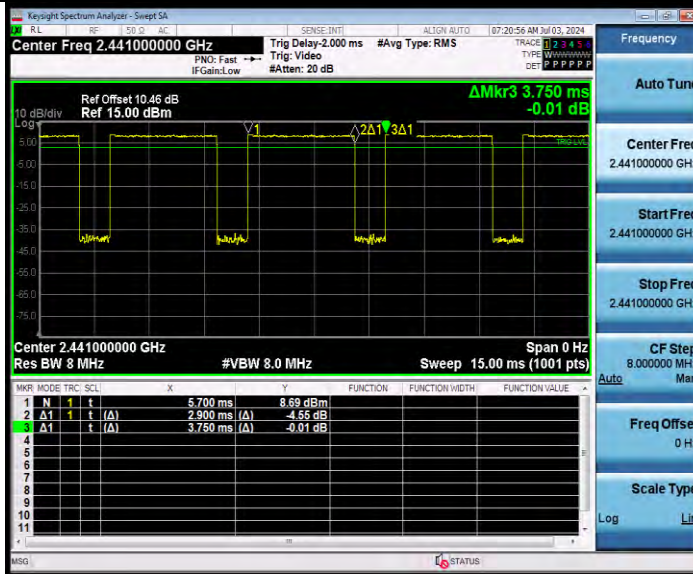
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

Tel: +86 755 8869 6566
Fax: +86 755 8869 6577
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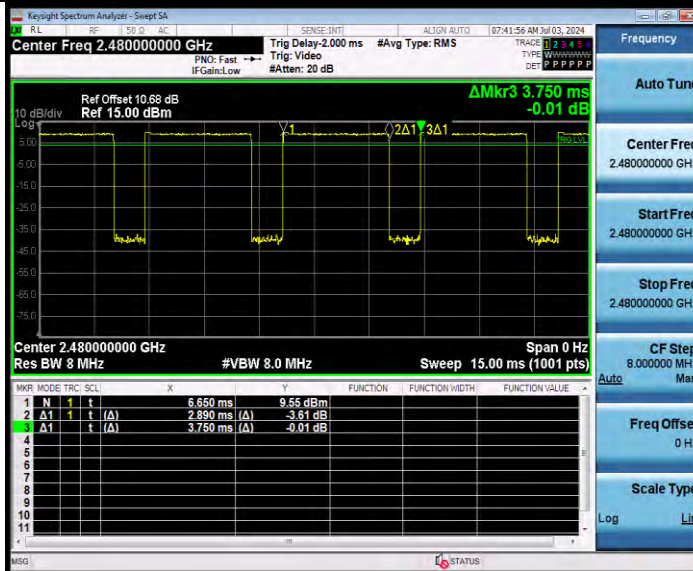


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Test Report No.: W7L-P24050016RF01



2DH5_Ant1_2480



3DH5_Ant1_2402

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

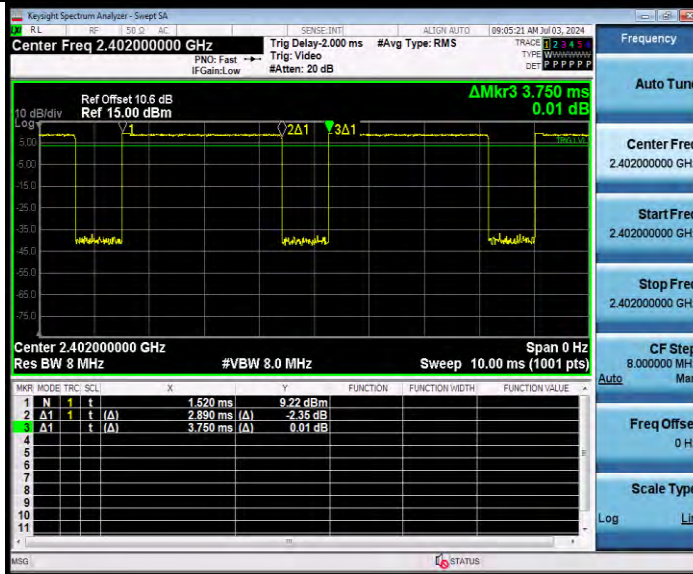
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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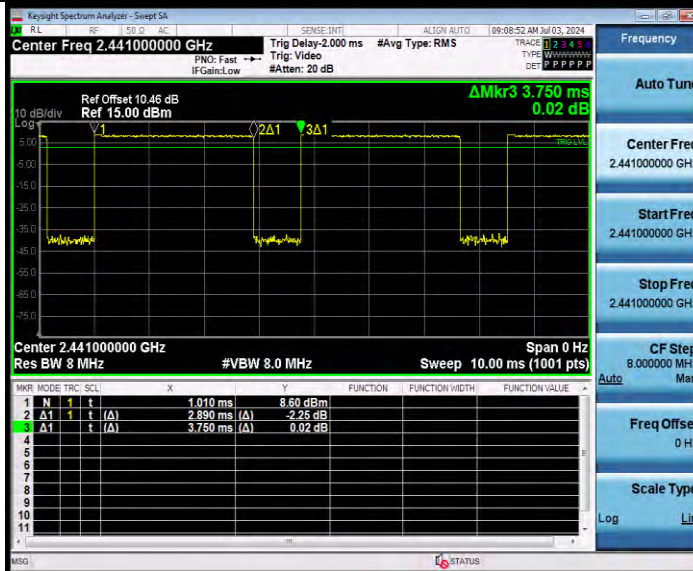


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Test Report No.: W7L-P24050016RF01



3DH5_Ant1_2441



3DH5_Ant1_2480

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

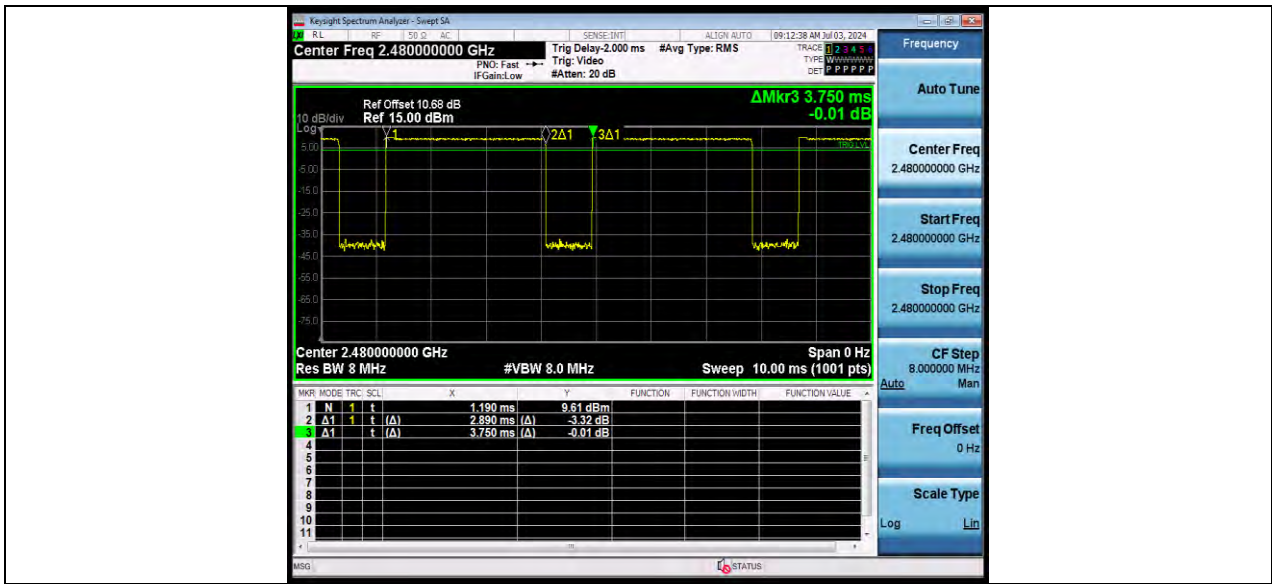
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