

TEST REPORT

Verified Code: 789429

Report No.:	E20201010106801-3	Application No.:	E20201010106801
Client:	Shen Zhen MTC Co., LTD		
Address:	MTC Industry Park, 1st Lilang Road, Xialilang community, Nanwan street, Longgang district, Shenzhen, China		
Sample Description:	Google Android TV BOX		
Model:	UI-7060A		
Test Specification:	FCC 47 CFR Part 15 Subpart C 15.247		
Receipt Date:	2020-10-16		
Test Date:	2020-10-20 to 2020-11-09		
Issue Date:	2020-12-08		
Test Result:	Pass		
Prepared By: Test Engineer <i>Xie Jang</i>	Reviewed By: Technical Manager <i>Wu Haoting</i>	Approved By: Manager <i>Wu Chengrong</i>	
Other Aspects:			
Note: Note			
Abbreviations: ok / P = passed; fail / F = failed; n.a. / N = not applicable;			
The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.			



DIRECTIONS OF TEST

- 1. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.**
- 2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.**
- 3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.**

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1. TEST RESULT SUMMARY

FCC 47 CFR Part 15 Subpart C 15.247			
Standard	Item	Limit / Severity	Result
FCC 47 CFR Part 15 Subpart C (15.247)	Antenna Requirement	Section 15.247 (b)(1)	PASS
	20dB Bandwidth	Section 15.247(a)(1)	PASS
	Carrier Frequencies Separated	Section 15.247(a)(1)	PASS
	Hopping Channel Number	Section 15.247(a)(1)(ii)	PASS
	Dwell Time	Section 15.247(a)(1)(iii)	PASS
	Maximum Peak Output Power	Section 15.247(b)(1)	PASS
	Conducted Emission	Section 15.207	PASS
	Conducted band edges and Spurious Emission (30MHz to 25GHz)	Section 15.209 & 15.247(d)	PASS
	Radiated Spurious Emission (30MHz to 25GHz)	Section 15.209 & 15.247(d)	PASS
	Restricted bands of operation	Section 15.247 (d) & 15.205	PASS

The EUT antenna is internal antenna. Max antenna gain is 2.64dBi .which accordance 15.203.is considered sufficient to comply with the provisions of this section

2. GENERAL DESCRIPTION OF EUT

2.1. APPLICANT

Name: Shen Zhen MTC Co., LTD
Address: MTC Industry Park, 1st Lilang Road, Xialilang community, Nanwan street, Longgang district, Shenzhen, China

2.2. MANUFACTURER

Name: DIGITAL MULTIMEDIA TECHNOLOGY CO., LTD
Address: 14th Floor, 726, Eonju-ro, Gangnam-gu, Seoul, Republic of Korea

2.3. FACTORY

Name : PT. PAMPAS ELECTRIC
Address : JL. KRUIING 2 BLOK L9 NO.9 KAWASAN INDUSTRI DELTA SILICON, LIPPO CIKARANG, KEL SUKARESMI, KEC. CIKARANG SELATAN KAB. BEKASI JAWA BARAT 17530

2.4. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Google Android TV BOX
Model No.: UI-7060A
Adding Model: UI-7060
Model Differences: UI-7060, UI-7060A board, schematic, hardware version, software version, structure are same, the difference as below:

model name	EMMC	DDR	S/PDIF	Remote Control
UI-7060	4G EMMC	1GB DDR3-2133, 16bits(4Gb*2)	/	Infrared Remote Control
UI-7060A	8G EMMC	2GB DDR3-2133, 16bits(4Gb*4)	1	Bluetooth Control

Trade Name: DMT,TIVO, EVOLUTION DIGITAL, NELSON CABLE, LINGVO TV, SFN, ODK, ODV, Homecast, Mid air Connect
FCC ID: 2AHVH-UI7060

Power Supply: DC12V power supplied by adapter

Adapter Specification: CHENZHOUE FRECOM ELECTRONICS CO., LTD
Model: F12L46-120100SPA
Input: 100-240V~50/60Hz 0.3A
Output: 12.0V --- 1.0A 12.0W

Frequency Range: 2402MHz~2480MHz

Transmit Power: DH5: 5.42dBm
2DH5: 6.62dBm
3DH5: 7.01dBm

Type of Modulation: FHSS (GFSK for 1Mbps, $\pi/4$ -DQPSK for 2Mbps, 8DPSK for 3Mbps)

Antenna Specification: Internal antenna 2.64dBi gain (Max.)

Temperature Range: -10°C~40°C

Hardware Version: IP1510-ZC01-01

Software Version: 20201027-135554

Sample No: 0001, 0008

Note: /

2.5. TEST OPERATION MODE

Test Item	Mode No.	Description of the modes
Conducted Emission	1	Bluetooth BR+EDR Transmitting
3Radiated Emission	1	Bluetooth BR+EDR Transmitting

2.6. LOCAL SUPPORTIVE

Name of Equipment	Manufacturer	Model	Serial Number	Note
Notebook	LENOVO	TianYi 310-14ISK	MP18DLC6	/
Adapter (Notebook)	LENOVO	ADLX65NCC3A	N/A	/
Cable				
AC cable	/	/	/	Unshielded, 1.00m
DC cable	/	/	/	Shielded, 1.80m

Test software:

Software version	Test level
Bluetooth RF Test Tool V5.2.2.22	Default

3. LABORATORY AND ACCREDITATIONS

3.1. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.

Add : Address: No.1301 Guangguang Road Xinlan Community, Guanlan Street,
Longhua District Shenzhen, 518110, People's Republic of China

P.C. : 518000

Tel : 0755-61180008

Fax : 0755-61180008

3.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies.

A2LA	Certificate Number 2861.01
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3.3. 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		Frequency	Uncertainty
Radiated Emission	Horizontal	30MHz~1000MHz	4.3dB
		1GHz~18GHz	5.6dB
	Vertical	30MHz~1000MHz	4.3dB
		1GHz~18GHz	5.6dB
Conduction Emission		9 kHz ~ 150 kHz	2.8 dB
		150 kHz ~ 10 MHz	2.8 dB
		10 MHz ~ 30 MHz	2.2 dB

This uncertainty represents an expanded uncertainty factor of $k=2$.

4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Conducted Emissions				
EMI TEST RECEIVER	R&S	ESCI	100783	2020/11/27
LISN(EUT)	R&S	ENV216	101543	2021/03/24
EZ-EMC	EZ	CCS-3A1-CE		
Hopping Channel Number				
Spectrum Analyzer	Agilent	N9010A	MY52221469	2021/05/16
Dwell Time				
Spectrum Analyzer	Agilent	N9010A	MY52221469	2021/05/168
Radiated Spurious Emission& Restricted bands of operation				
TEST RECEIVER	R&S	ESU26	EMC26-G260	2021/09/22
Spectrum Analyzer	Agilent	N9010A	MY52221469	2021/05/16
Bilog Antenna	Schwarzbeck	VULB 9163	01279	2021/03/14
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	02143	2020/12/28
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2020/11/30
Amplifier	Tonscend	TAP9E6343	AP20E806065	2021/06/28
Amplifier	Tonscend	TAP01018048	AP20E8060075	2021/06/28
Amplifier	Tonscend	TAP037030	AP20E8060081	2021/06/28
Amplifier	Tonscend	TAP184050	AP20E806071	2021/06/15
Test S/W	Tonscend	JS32-RE/2.5.2.4		
20 dB Bandwidth				
Spectrum Analyzer	Agilent	N9010A	MY52221469	2021/05/16
Maximum Peak Output Power				
Spectrum Analyzer	Agilent	N9010A	MY52221469	2021/05/16
Conducted band edges and Spurious Emission				
Spectrum Analyzer	Agilent	N9010A	MY52221469	2021/05/16
Carrier Frequencies Separated				
Spectrum Analyzer	Agilent	N9010A	MY52221469	2021/05/16

5. TEST RESULTS

5.1. E.U.T. TEST CONDITIONS

Type of antenna: Internal

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

the range	Frequency range over which device operates	Number of frequencies	Location in of operation
	1 MHz or less	1	
Middle	1 to 10 MHz	2	1
near top and 1 near bottom	More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2416	28	2430
1	2403	15	2417	29	2431
2	2404	16	2418	30	2432
3	2405	17	2419	31	2433
4	2406	18	2420	32	2434
5	2407	19	2421	33	2435
6	2408	20	2422	34	2436
7	2409	21	2423	35	2437
8	2410	22	2424	36	2438
9	2411	23	2425	37	2439
10	2412	24	2426	38	2440
11	2413	25	2427	39	2441
12	2414	26	2428	40	2442
13	2415	27	2429	41	2443

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	2444	55	2457	68	2470
43	2445	56	2458	69	2471
44	2446	57	2459	70	2472
45	2447	58	2460	71	2473
46	2448	59	2461	72	2474
47	2449	60	2462	73	2475
48	2450	61	2463	74	2476
49	2451	62	2464	75	2477
50	2452	63	2465	76	2478
51	2453	64	2466	77	2479
52	2454	65	2467	78	2480
53	2455	66	2468		
54	2456	67	2469		

Test frequency is the lowest channel: 0 channel(2402MHz), middle channel: 39 channel(2441MHz) and highest channel: 78 channel(2480MHz)

5.2. 20dB BANDWIDTH

5.2.1. LIMITS

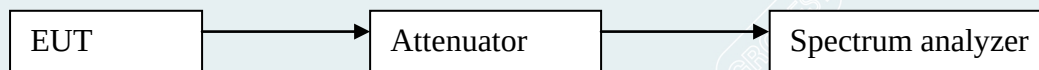
Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

5.2.2. TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Set the spectrum analyzer as RBW=30 kHz, VBW=100 kHz, Span=3MHz, Sweep = auto.
Allow the trace to stabilize, record 20dB bandwidth value
- 3) Repeat until all the test channels are investigated.

Remark: /

5.2.3. TEST SETUP



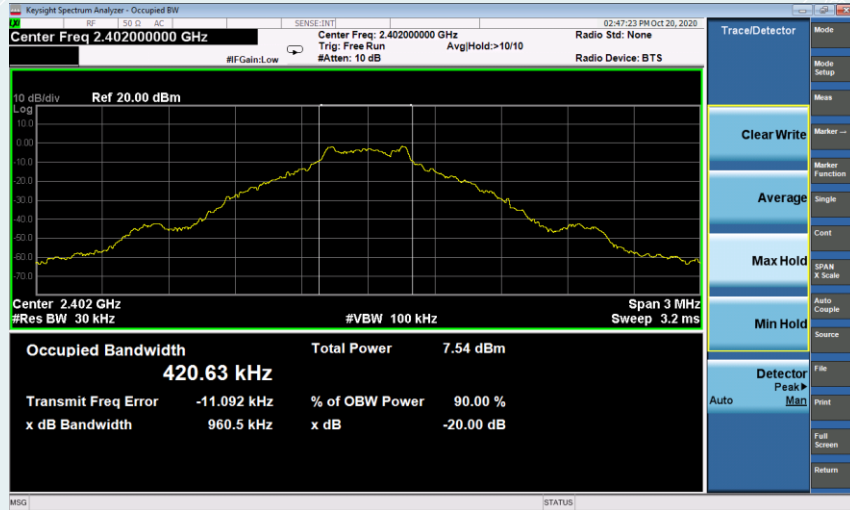
5.2.4. TEST RESULTS

Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
DH5	Low	2402	960.5
	Mid	2441	955.1
	High	2480	988.2
Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
2DH5	Low	2402	1258
	Mid	2441	1253
	High	2480	1248
Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
3DH5	Low	2402	1271
	Mid	2441	1256
	High	2480	1279

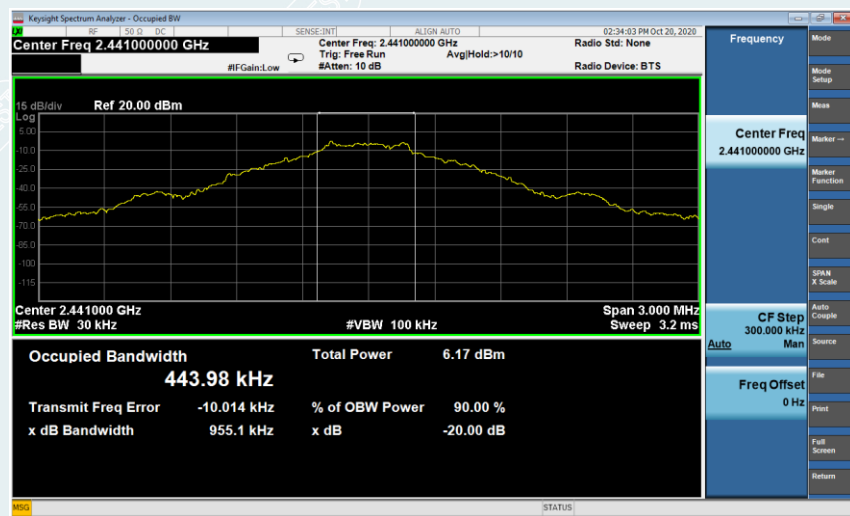
Result plot as follows:

DH5

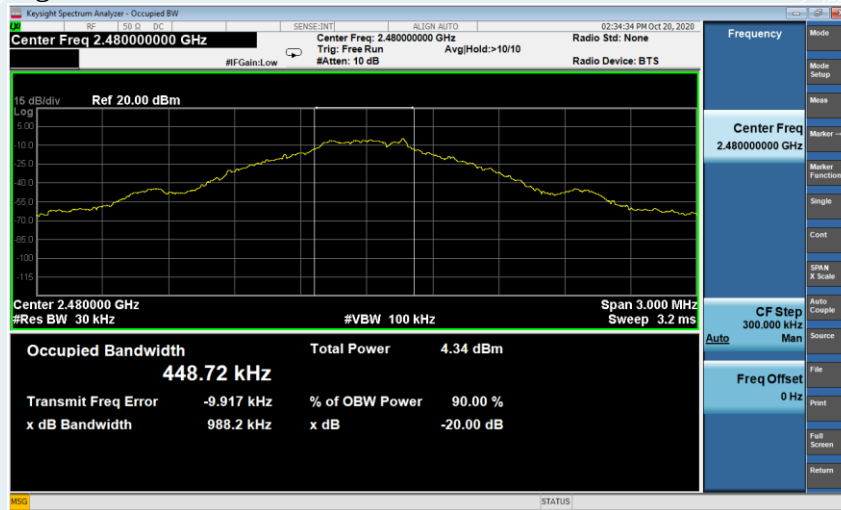
Low Channel



Mid Channel

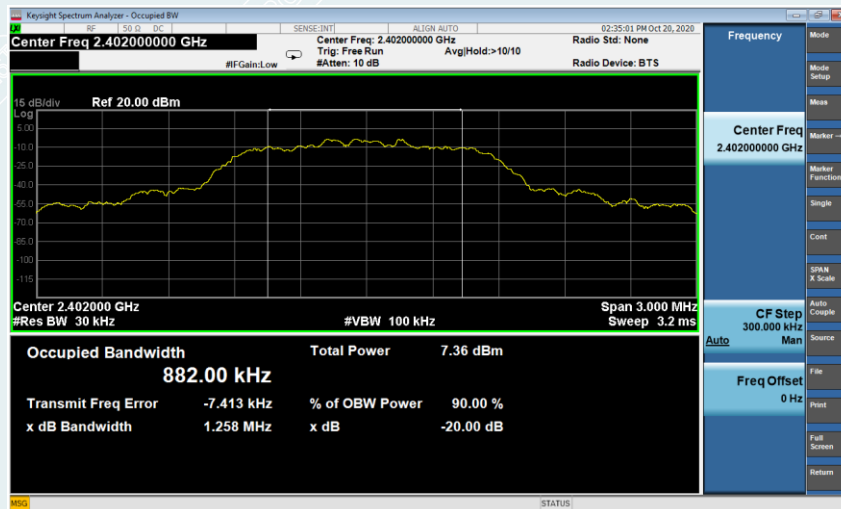


High Channel

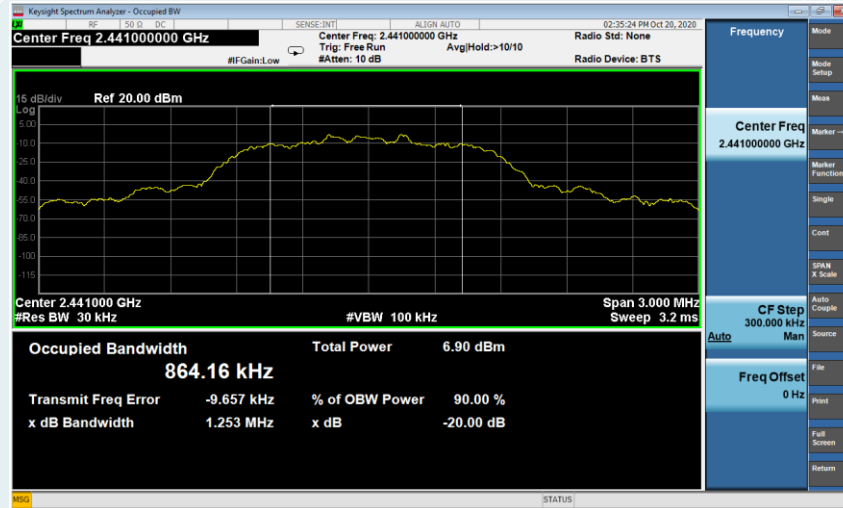


2DH5

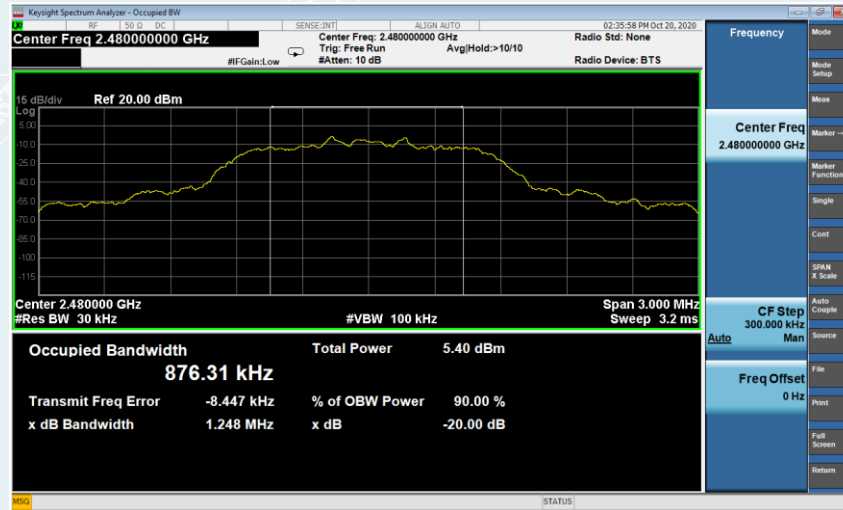
Low Channel



Mid Channel

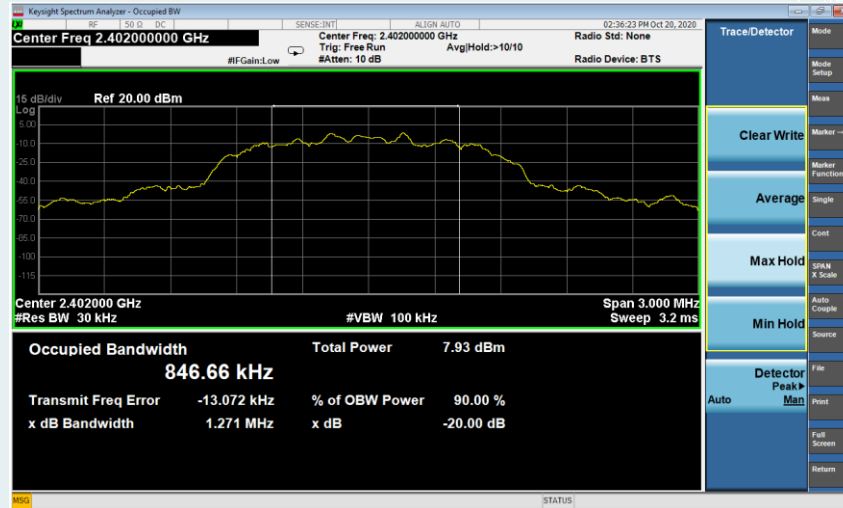


High Channel

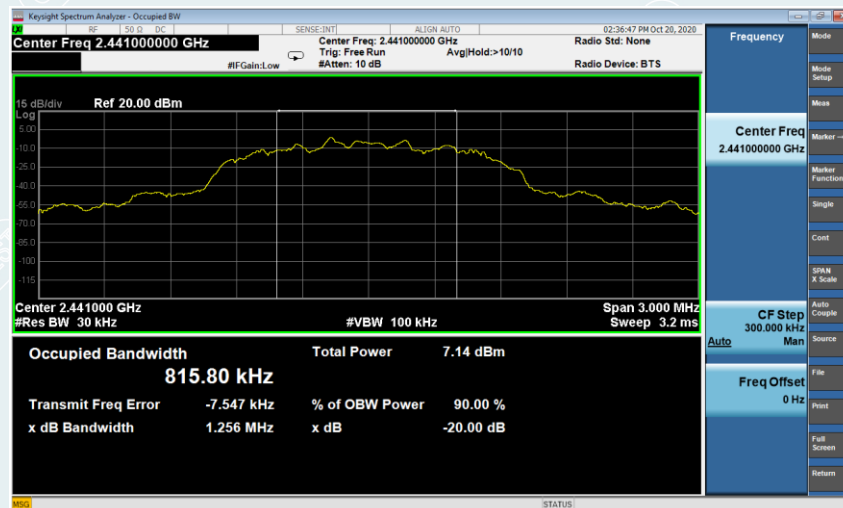


3DH5

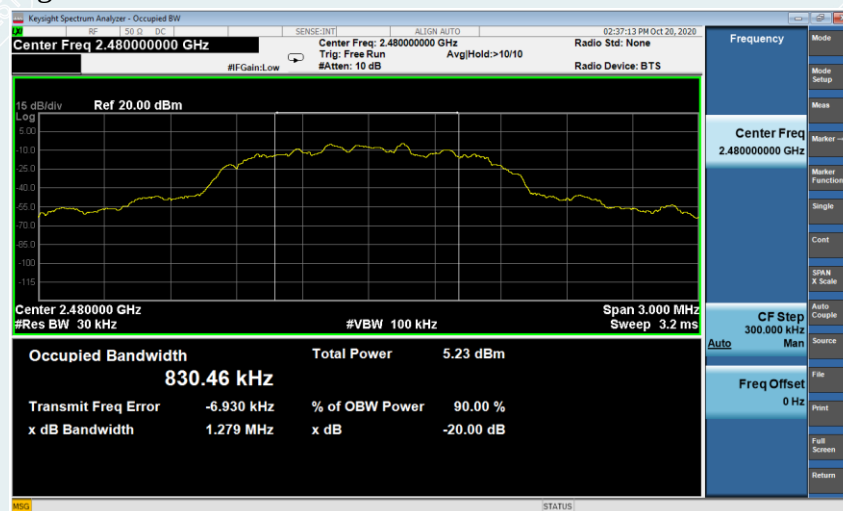
Low Channel



Mid Channel



High Channel



5.3. CARRIER FREQUENCIES SEPARATED

5.3.1. LIMITS

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.

5.3.2. TEST PROCEDURES

- 1) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2) Set center frequency of spectrum analyzer = middle of hopping channel.
- 3) Set the spectrum analyzer as RBW=30kHz, VBW=30kHz, Adjust Span to 2 MHz, Sweep = auto
- 4) Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

Remark : /

5.3.3. TEST SETUP



5.3.4. TEST RESULTS

DH5

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.000	685.8	> Two-thirds of the 20 dB Bandwidth	Pass

2DH5

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.000	838.667	> Two-thirds of the 20 dB Bandwidth	Pass

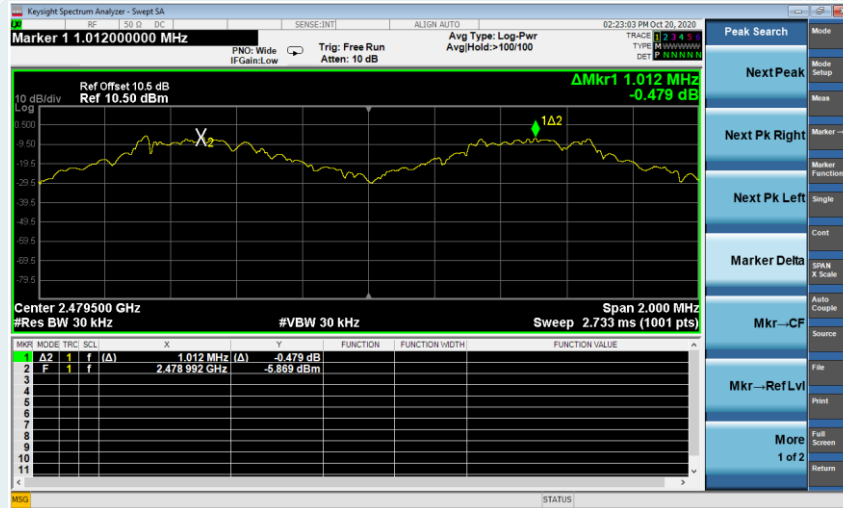
3DH5

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.000	852.667	> Two-thirds of the 20 dB Bandwidth	Pass

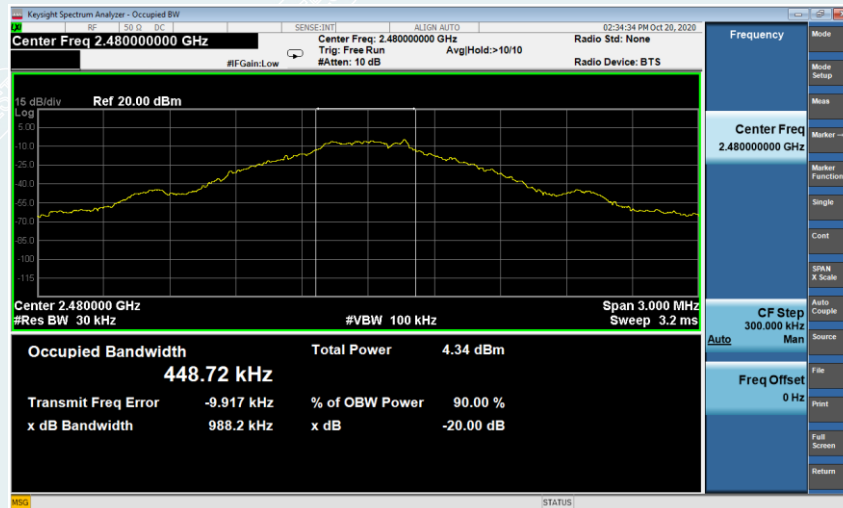
Result plot as follows:

DH5

Measurement of Channel Separation

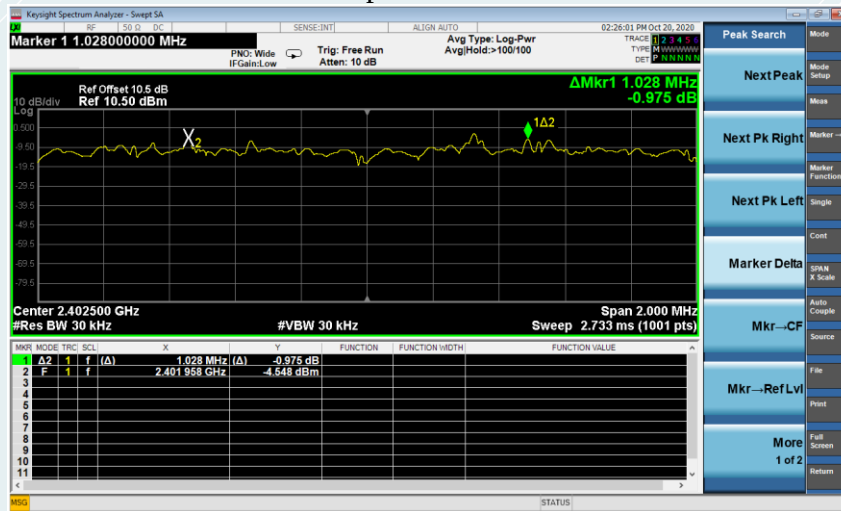


20 dB bandwidth(CH High)

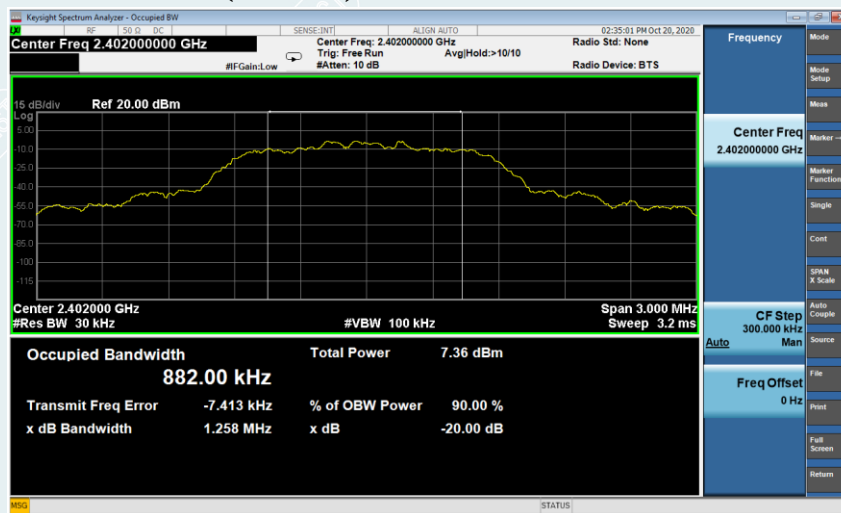


2DH5

Measurement of Channel Separation

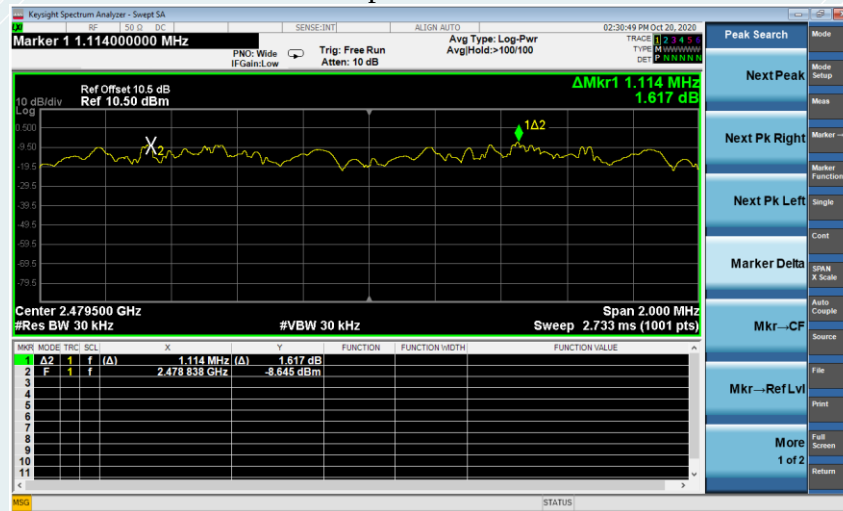


20 dB bandwidth(CH Low)

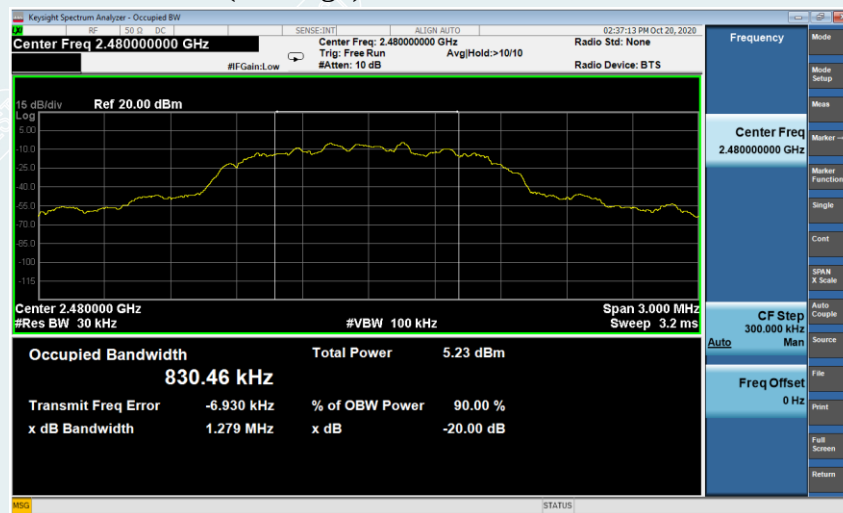


3DH5

Measurement of Channel Separation



20 dB bandwidth(CH High)



Test result: The unit does meet the FCC requirements.

5.4. HOPPING CHANNEL NUMBER

5.4.1. LIMITS

Regulation 15.247 (a) (1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

5.4.2. TEST PROCEDURES

- 1) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2) Set the spectrum analyzer as RBW, VBW=300kHz,
- 3) Set the spectrum analyzer: start frequency = 2400MHz. stop frequency = 2483.5MHz. Submit the test result graph.

5.4.3. TEST SETUP

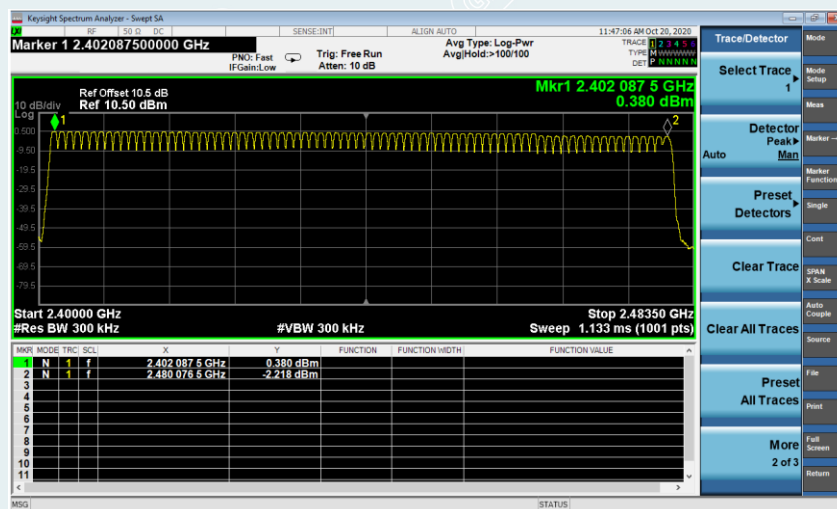


5.4.4. TEST RESULTS

Result (No. of CH)	Limit (No. of CH)	Result
79	>15	PASS

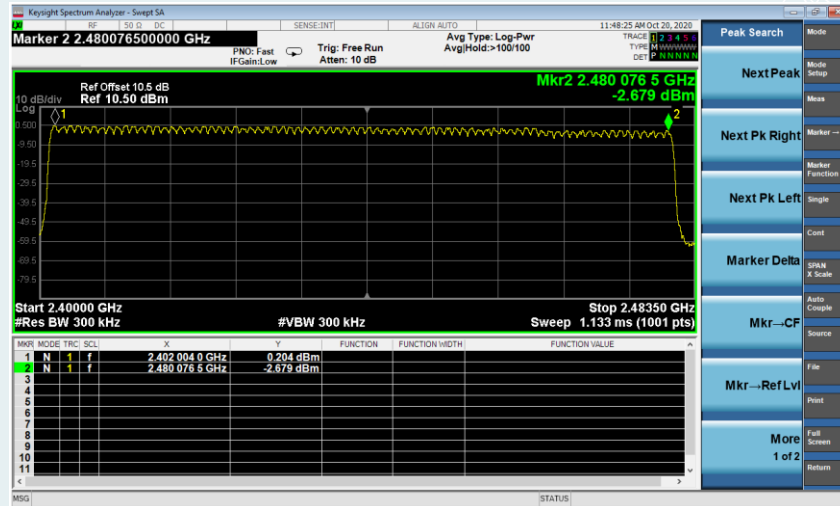
GFSK

2.400 GHz – 2.4835 GHz



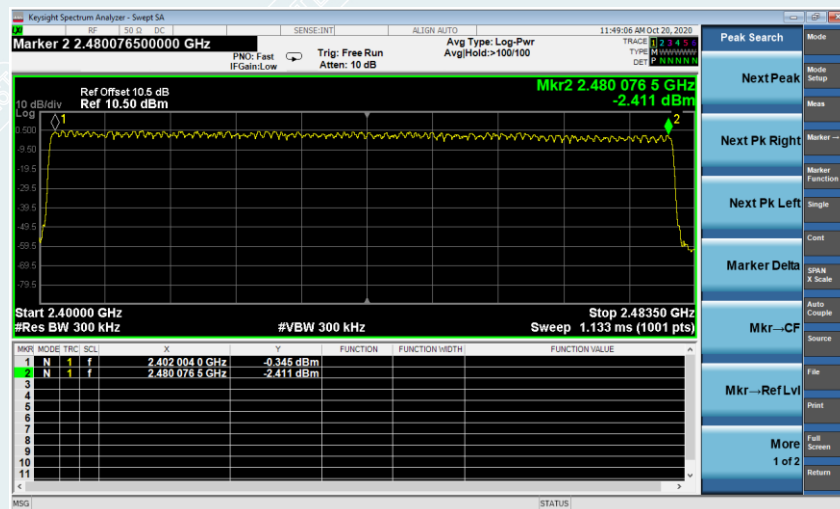
$\pi/4$ -DQPSK

2.400 GHz – 2.4835 GHz



8DPSK

2.400 GHz – 2.4835 GHz



Test result: The unit does meet the FCC requirements.

5.5. DWELL TIME

5.5.1. LIMITS

Regulation 15.247(a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.5.2. TEST PROCEDURES

- 1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2) Set spectrum analyzer span = 0. centered on a hopping channel;
- 3) Set RBW = 1MHz and VBW = 1MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Detector Function = Peak. Trace = Max hold;
- 4) Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.). Repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s). An oscilloscope may be used instead of a spectrum analyzer.

5.5.3. TEST SETUP



5.5.4. TEST RESULTS

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

GFSK: Mid Channel (2.441GHz)

DH1	time slot=	0.390	(ms)*	$(1600/(2*79))$	*	31.6	=	124.800	ms
DH3	time slot=	1.640	(ms)*	$(1600/(4*79))$	*	31.6	=	262.400	ms
DH5	time slot=	2.900	(ms)*	$(1600/(6*79))$	*	31.6	=	309.333	ms

$\pi/4$ -DQPSK: Mid Channel (2.441GHz)

2DH1	time slot=	0.400	(ms)*	$(1600/(2*79))$	*	31.6	=	128.000	ms
2DH3	time slot=	1.650	(ms)*	$(1600/(4*79))$	*	31.6	=	264.000	ms
2DH5	time slot=	2.900	(ms)*	$(1600/(6*79))$	*	31.6	=	309.333	ms

8DPSK: Mid Channel (2.441GHz)

3DH1	time slot=	0.400	(ms)*	$(1600/(2*79))$	*	31.6	=	128.000	ms
3DH3	time slot=	1.650	(ms)*	$(1600/(4*79))$	*	31.6	=	264.000	ms
3DH5	time slot=	2.900	(ms)*	$(1600/(6*79))$	*	31.6	=	309.333	ms

The results are not greater than 0.4 seconds.

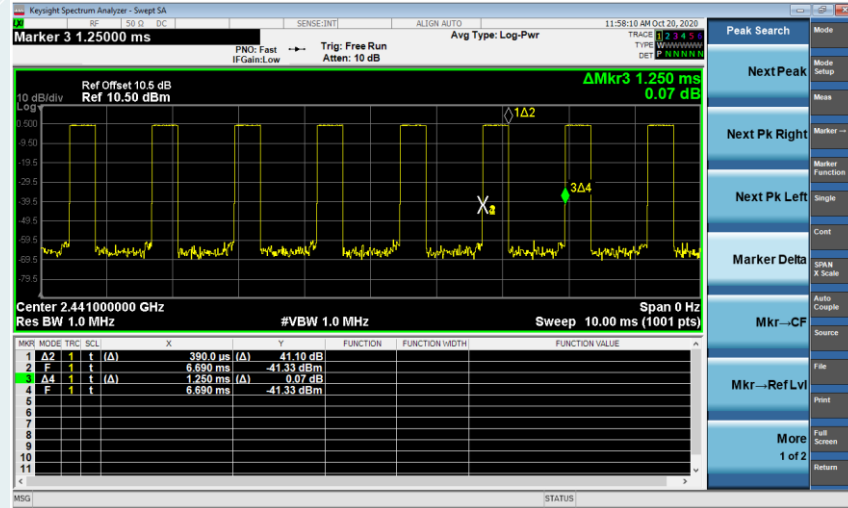
The unit does meet the requirements.

Please refer the graph as below:

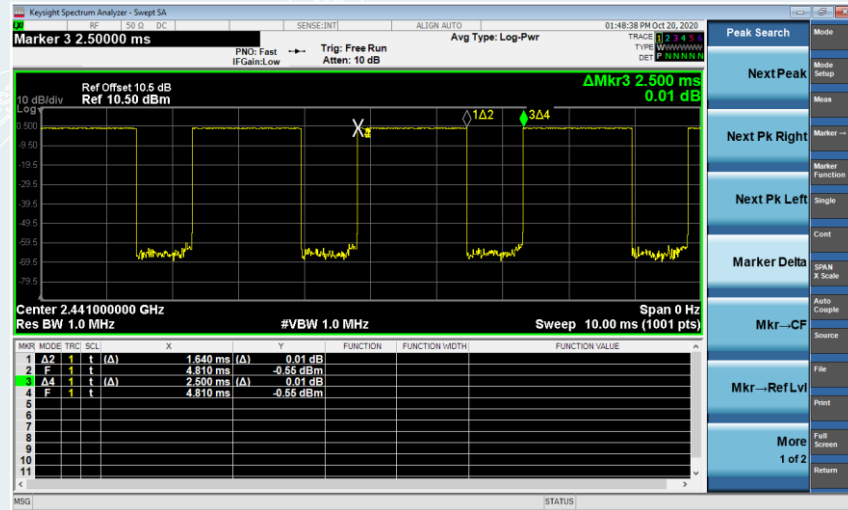
GFSK

Mid Channel (2.441GHz)

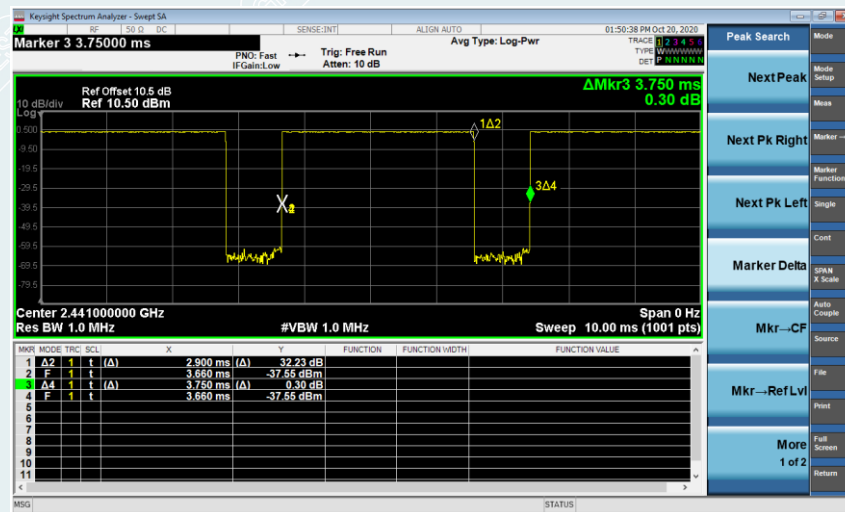
DH1



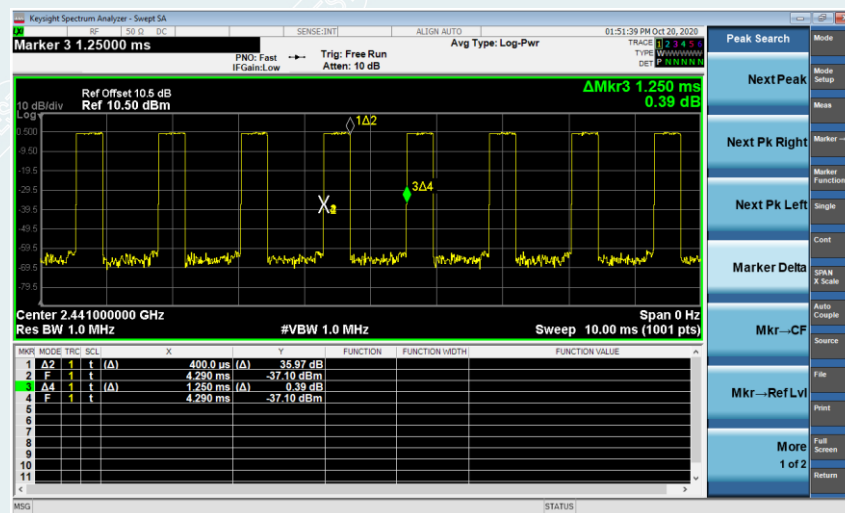
DH3



DH5

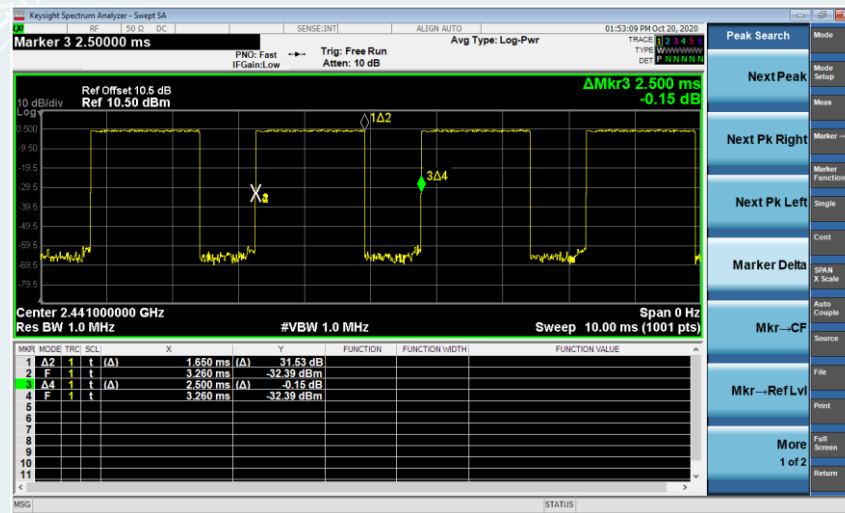


$\pi/4$ -DQPSK
Mid Channel (2.441GHz)
2DH1

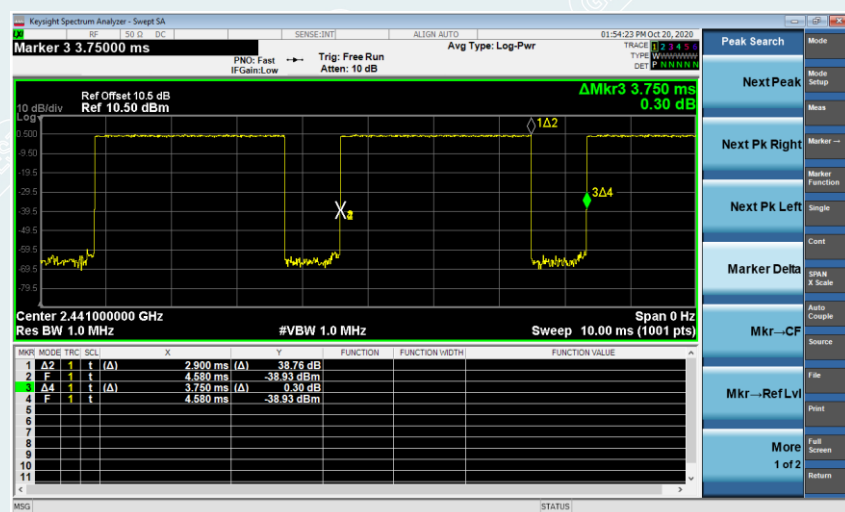


Mid Channel (2.441GHz)

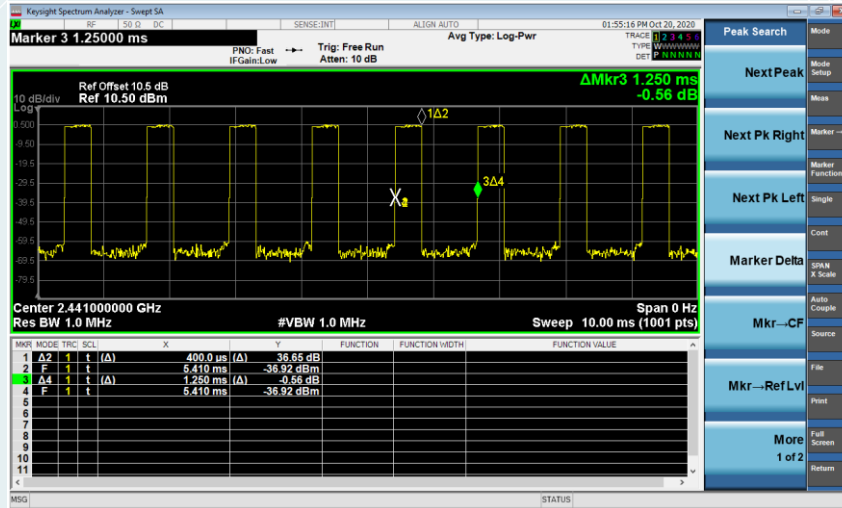
2DH3



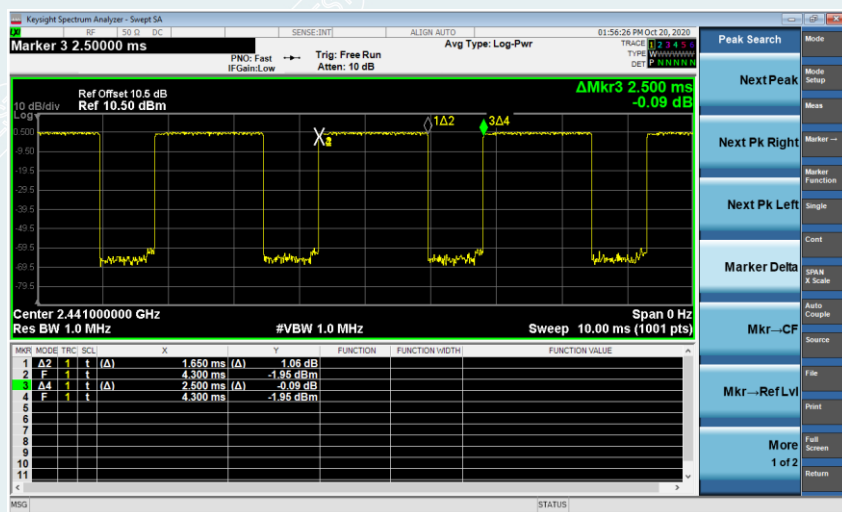
2DH5



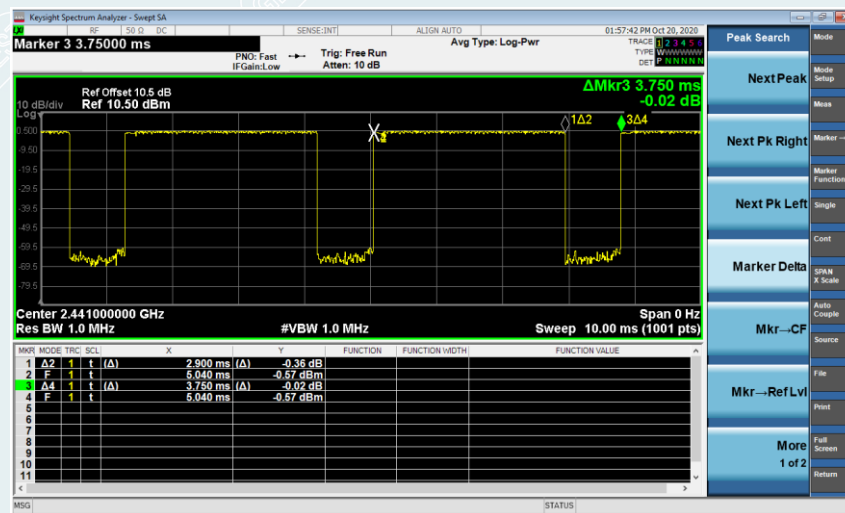
8DPSK Mid Channel (2.441GHz) 3DH1



3DH3



3DH5



5.6. CONDUCTED EMISSION MEASUREMENT

5.6.1. LIMITS

Frequency range	Limits (dB μ V)	
	Quasi-peak	Average
150kHz ~ 0.5MHz	66~56	56~46
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

5.6.2. TEST PROCEDURES

Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

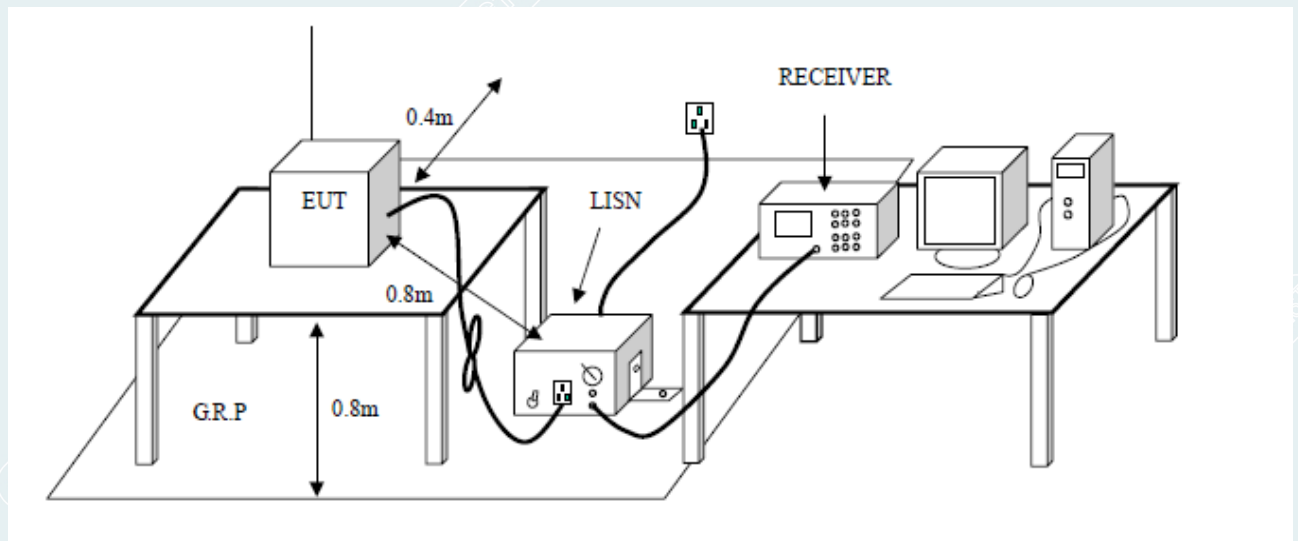
- Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:
 - 1) Place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or
 - 2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;
- All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;
- The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.
- I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

5.6.3. TEST SETUP



5.6.4. DATA SAMPLE

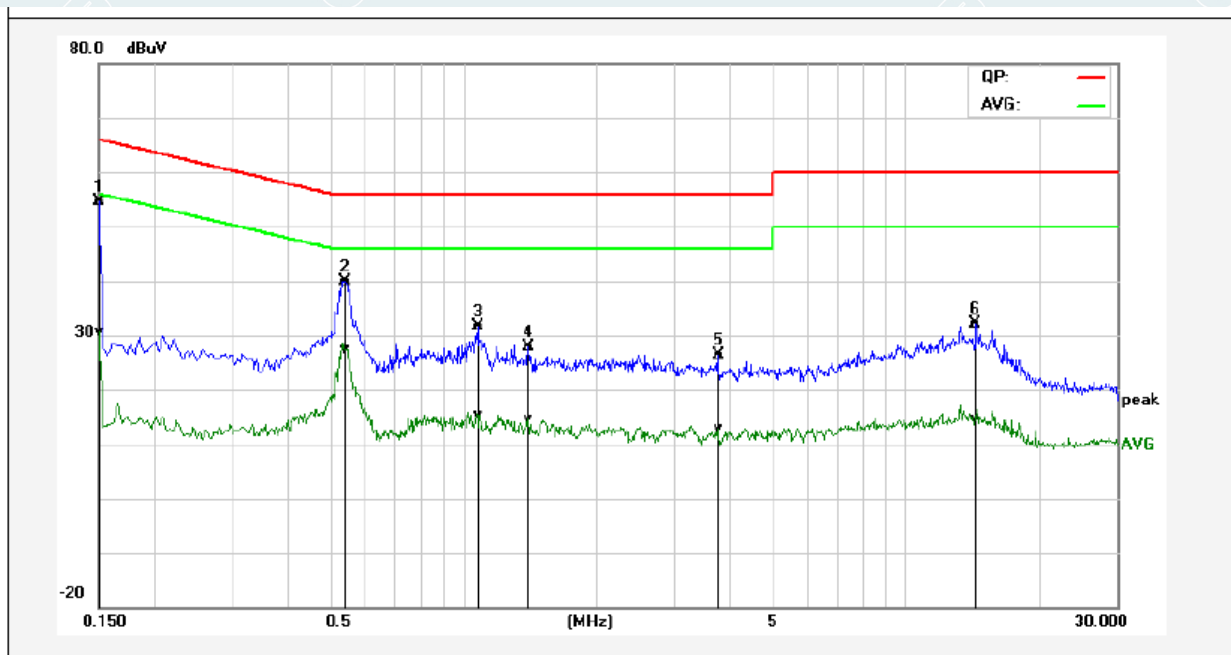
Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss
 Result = Quasi-peak Reading/ Average Reading + Factor
 Limit = Limit stated in standard
 Margin = Result (dBuV) – Limit (dBuV)

5.6.5. TEST RESULTS

Model No.	UI-7060A	RBW,VBW	9 kHz
Environmental Conditions	22°C/43%RH	Test Mode	Mode 1
Tested By	Luo Ping	Line	L
Tested Date	2020/10/28	Test Voltage	AC120V/60Hz

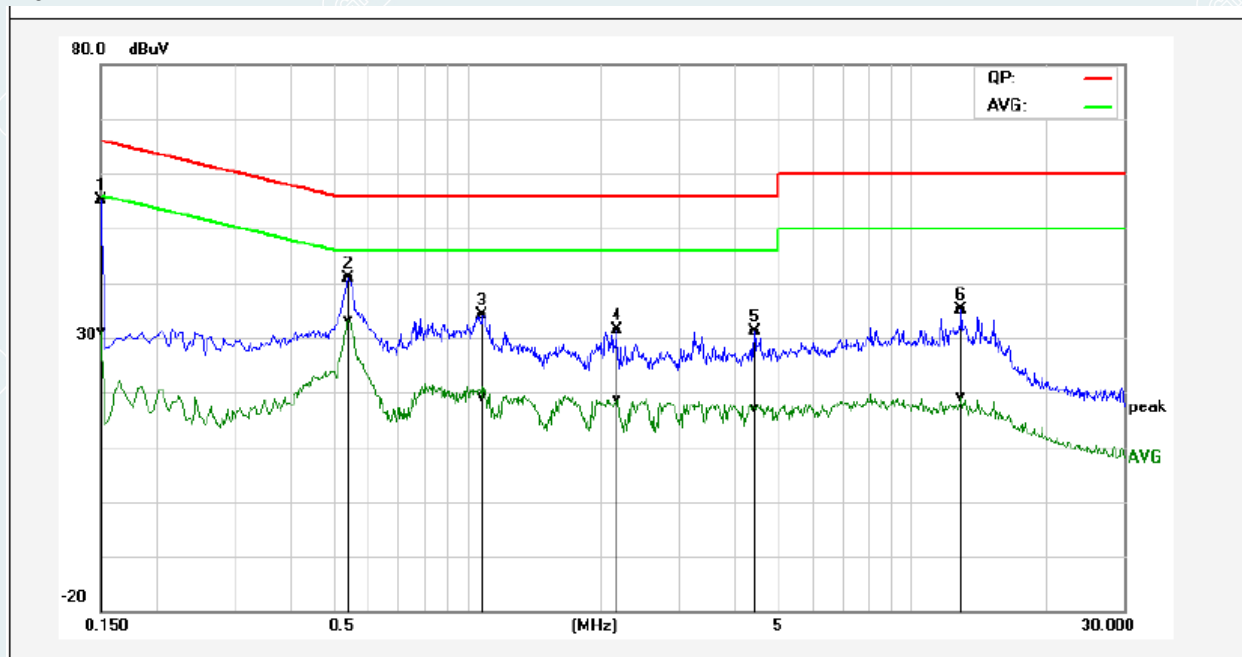
2402MHz



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	45.08	20.85	9.67	54.75	30.52	65.99	56.00	-11.24	-25.48	Pass
2	0.5420	30.32	17.81	9.67	39.99	27.48	56.00	46.00	-16.01	-18.52	Pass
3	1.0820	21.90	5.69	9.71	31.61	15.40	56.00	46.00	-24.39	-30.60	Pass
4	1.4100	18.25	5.02	9.72	27.97	14.74	56.00	46.00	-28.03	-31.26	Pass
5	3.7740	16.70	3.01	9.77	26.47	12.78	56.00	46.00	-29.53	-33.22	Pass
6	14.4100	22.13	4.83	9.89	32.02	14.72	60.00	50.00	-27.98	-35.28	Pass

Model No.	UI-7060A	RBW,VBW	9 kHz
Environmental Conditions	22°C/43%RH	Test Mode	Mode 1
Tested By	Luo Ping	Line	N
Tested Date	2020/10/28	Test Voltage	AC120V/60Hz

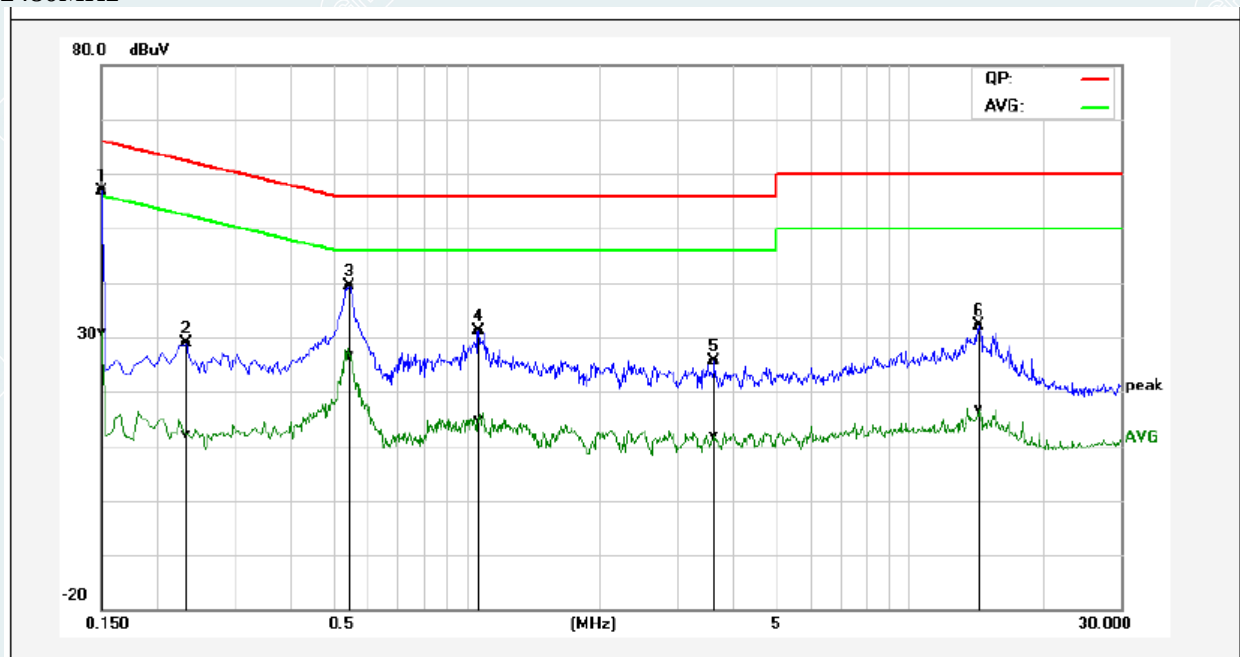
2402MHz



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	45.34	21.36	9.67	55.01	31.03	65.99	56.00	-10.98	-24.97	Pass
2	0.5420	31.11	23.56	9.67	40.78	33.23	56.00	46.00	-15.22	-12.77	Pass
3	1.0859	24.52	9.43	9.71	34.23	19.14	56.00	46.00	-21.77	-26.86	Pass
4	2.1780	21.68	8.82	9.73	31.41	18.55	56.00	46.00	-24.59	-27.45	Pass
5	4.4540	21.31	7.46	9.79	31.10	17.25	56.00	46.00	-24.90	-28.75	Pass
6	12.9340	25.15	9.22	9.86	35.01	19.08	60.00	50.00	-24.99	-30.92	Pass

Model No.	UI-7060A	RBW,VBW	9 kHz
Environmental Conditions	22°C/43%RH	Test Mode	Mode 1
Tested By	Luo Ping	Line	L
Tested Date	2020/10/28	Test Voltage	AC120V/60Hz

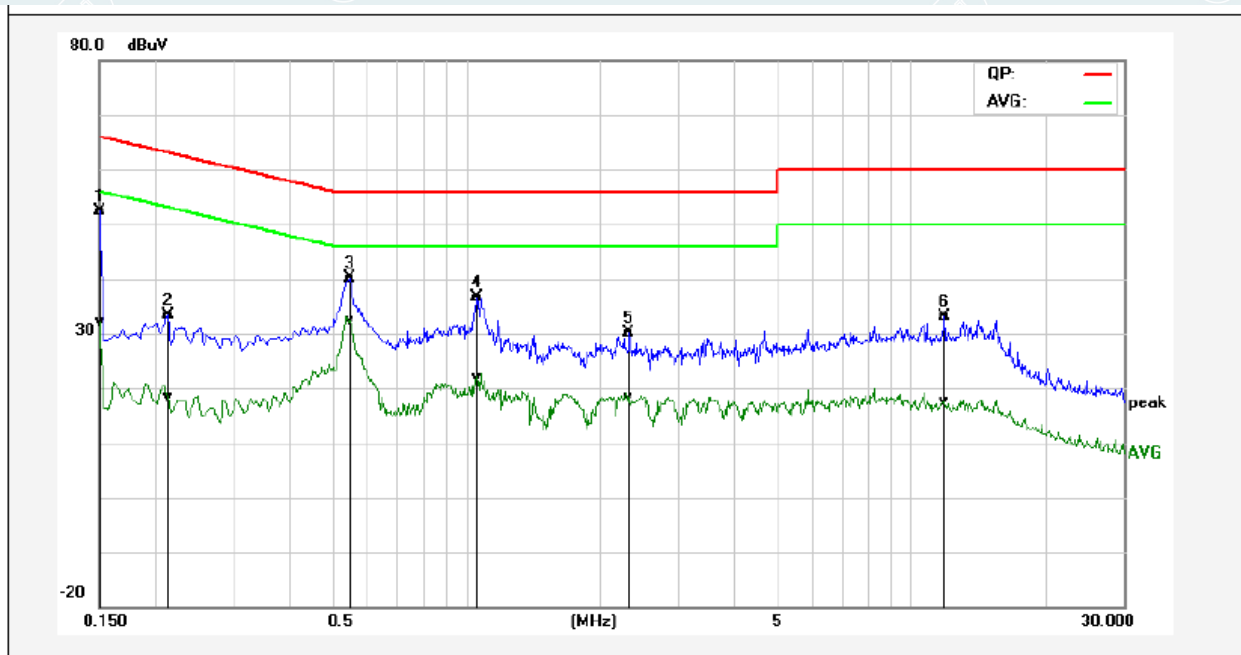
2480MHz



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	47.21	21.10	9.67	56.88	30.77	65.99	56.00	-9.11	-25.23	Pass
2	0.2340	19.18	2.56	9.68	28.86	12.24	62.30	52.31	-33.44	-40.07	Pass
3	0.5460	29.79	16.96	9.67	39.46	26.63	56.00	46.00	-16.54	-19.37	Pass
4	1.0660	21.33	5.07	9.71	31.04	14.78	56.00	46.00	-24.96	-31.22	Pass
5	3.6260	15.77	2.18	9.77	25.54	11.95	56.00	46.00	-30.46	-34.05	Pass
6	14.3780	22.29	6.86	9.88	32.17	16.74	60.00	50.00	-27.83	-33.26	Pass

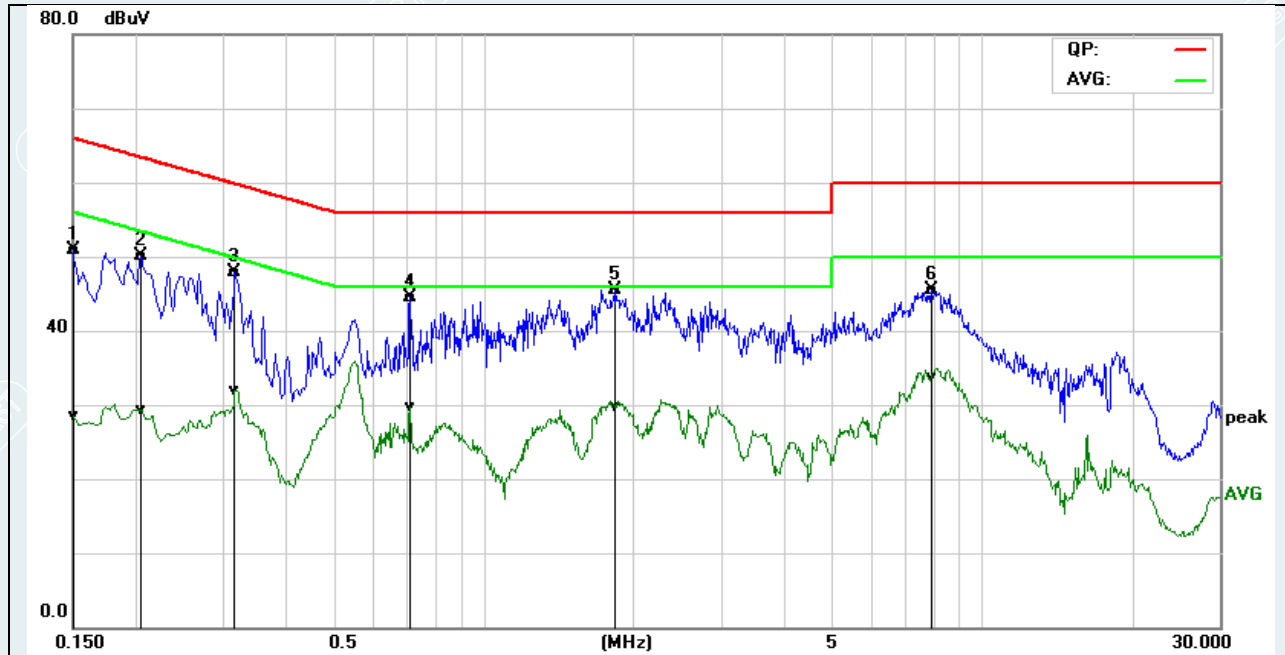
Model No.	UI-7060A	RBW,VBW	9 kHz
Environmental Conditions	22°C/43%RH	Test Mode	Mode 1
Tested By	Luo Ping	Line	N
Tested Date	2020/10/28	Test Voltage	AC120V/60Hz

2480MHz



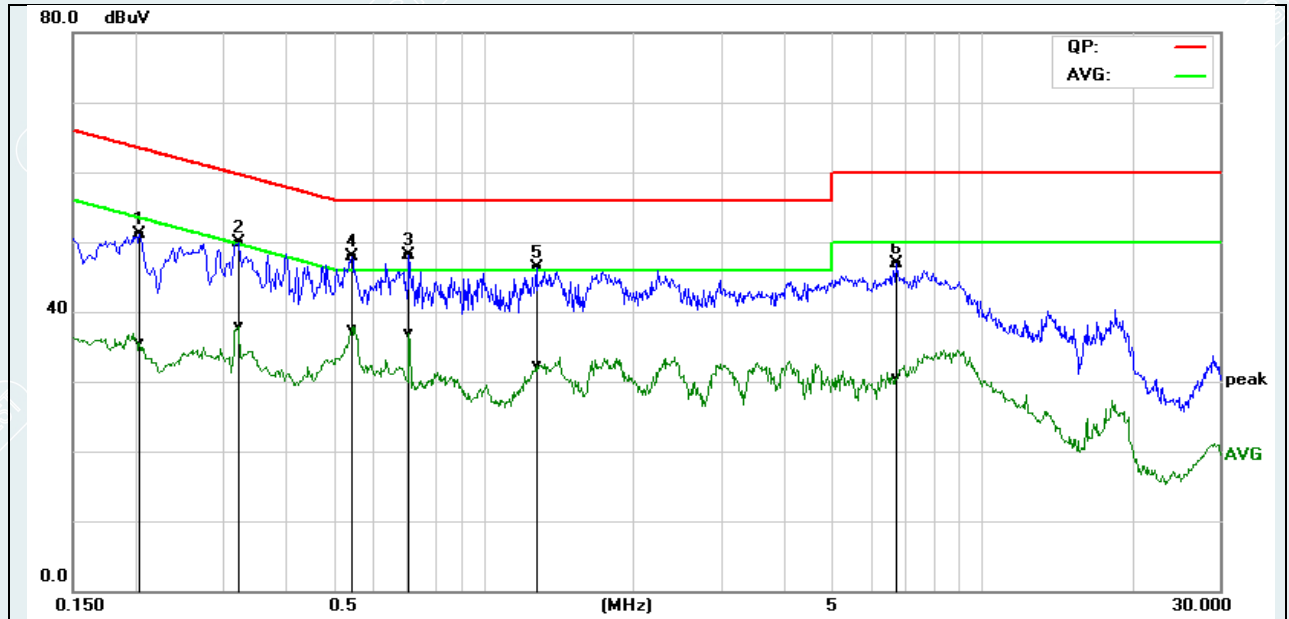
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	42.69	22.41	9.67	52.36	32.08	65.99	56.00	-13.63	-23.92	Pass
2	0.2140	23.60	8.74	9.68	33.28	18.42	63.04	53.05	-29.76	-34.63	Pass
3	0.5500	30.46	22.68	9.67	40.13	32.35	56.00	46.00	-15.87	-13.65	Pass
4	1.0580	26.89	12.05	9.71	36.60	21.76	56.00	46.00	-19.40	-24.24	Pass
5	2.3260	20.32	8.75	9.74	30.06	18.49	56.00	46.00	-25.94	-27.51	Pass
6	11.8820	23.39	7.85	9.86	33.25	17.71	60.00	50.00	-26.75	-32.29	Pass

Model No.	UI-7060A	RBW,VBW	9 kHz
Environmental Conditions	24.5°C/43%RH	Test Mode	Mode 1
Tested By	Luo Ping	Line	L
Tested Date	2020/10/26	Test Voltage	AC230V/50Hz



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	41.29	18.99	9.61	50.90	28.60	65.99	56.00	-15.09	-27.40	Pass
2	0.2060	40.54	19.77	9.61	50.15	29.38	63.36	53.37	-13.21	-23.99	Pass
3	0.3180	38.25	22.29	9.61	47.86	31.90	59.76	49.76	-11.90	-17.86	Pass
4	0.7140	34.81	20.13	9.61	44.42	29.74	56.00	46.00	-11.58	-16.26	Pass
5*	1.8460	35.89	20.14	9.62	45.51	29.76	56.00	46.00	-10.49	-16.24	Pass
6	7.8980	35.75	23.96	9.71	45.46	33.67	60.00	50.00	-14.54	-16.33	Pass

Model No.	UI-7060A	RBW,VBW	9 kHz
Environmental Conditions	24.5°C/43%RH	Test Mode	Mode 1
Tested By	Luo Ping	Line	N
Tested Date	2020/10/26	Test Voltage	AC230V/50Hz



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.2040	41.58	25.86	9.61	51.19	35.47	63.44	53.45	-12.25	-17.98	Pass
2	0.3220	40.22	28.31	9.61	49.83	37.92	59.65	49.66	-9.82	-11.74	Pass
3*	0.7100	38.58	27.28	9.61	48.19	36.89	56.00	46.00	-7.81	-9.11	Pass
4	0.5460	38.27	27.85	9.62	47.89	37.47	56.00	46.00	-8.11	-8.53	Pass
5	1.2780	36.68	22.64	9.62	46.30	32.26	56.00	46.00	-9.70	-13.74	Pass
6	6.7460	37.16	20.86	9.69	46.85	30.55	60.00	50.00	-13.15	-19.45	Pass

5.7. MAXIMUM PEAK OUTPUT POWER

5.7.1. LIMITS

Regulation 15.247 (b)(1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.7.2. TEST PROCEDURES

- 1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW = 3 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak.
- 3) Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

Remark: /

5.7.3. TEST SETUP



5.7.4. TEST RESULTS**DH5**

Test Channel	Fundamental Frequency (GHz)	Max Output Power(dBm)	Limit (dBm)	Peak/Average	Pass/Fail
Lowest	2.402	5.42	20.97	Peak	Pass
Middle	2.441	4.78			Pass
Highest	2.480	3.05			Pass

2DH5

Test Channel	Fundamental Frequency (GHz)	Max Output Power(dBm)	Limit (dBm)	Peak/Average	Pass/Fail
Lowest	2.402	6.62	20.97	Peak	Pass
Middle	2.441	6.07			Pass
Highest	2.480	4.36			Pass

3DH5

Test Channel	Fundamental Frequency (GHz)	Max Output Power(dBm)	Limit (dBm)	Peak/Average	Pass/Fail
Lowest	2.402	7.01	20.97	Peak	Pass
Middle	2.441	6.42			Pass
Highest	2.480	4.74			Pass

Test result: The unit does meet the FCC requirements.

5.8. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

5.8.1. LIMITS

(d) 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 conducted power limits. If the transmitter complies with the conducted 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.

5.8.2. TEST PROCEDURES

- 1) Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW = 100 KHz; VBW = 300 KHz, Span = 30 MHz to 26 GHz; Sweep = auto; Detector Function = Peak. Trace = Max, hold.
- 3) Measure and record the results in the test report.
- 4) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5.8.3. TEST SETUP



5.8.4. TEST RESULTS

The unit does meet the FCC requirements.

Test result plot as follows: