

FCC TEST REPORT

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF150727C28-1	Original release	Aug. 13, 2015

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1. CERTIFICATION

PRODUCT: Rugged Android Tablet

MODEL NO.: GT7820 & GT7810 & GT7800 & GT78

BRAND: Amobile

APPLICANT: AMobile Intelligent Corp.

TESTED: Jun. 30, 2015 ~ Aug. 05, 2015

TEST SAMPLE: Identical Prototype

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10-2013

The above equipment (model: GT7820 & GT7810 & GT7800 & GT78) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Gina Liu / Specialist

Kay Wu / Supervisor



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C (Bluetooth EDR)							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK				
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -7.67dB at 1.89400MHz.				
15.247(a)(1) (iii)	Number of Hopping Frequency Used	PASS	Meet the requirement of limit.				
15.247(a)(1) (iii)	5.247(a)(1) (iii) Dwell Time on Each Channel		Meet the requirement of limit.				
15.247(a)(1)	Hopping Channel Separation Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	PASS	Meet the requirement of limit.				
15.247(b)	Maximum Peak Output Power		Meet the requirement of limit.				
15.247(d) Transmitter Radiated Emissions		PASS	Meet the requirement of limit. Minimum passing margin is -12.90dB at 2484MHz.				
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.				
15.203	Antenna Requirement	PASS	No antenna connector is used.				

NOTE: 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.

2.1 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	FREQUENCY	UNCERTAINTY	
Conducted emissions	9kHz~30MHz	2.44 dB	
	30MHz ~ 200MHz	2.93 dB	
Radiated emissions	200MHz ~1000MHz	2.95 dB	
Radiated emissions	1GHz ~ 18GHz	2.26 dB	
	18GHz ~ 40GHz	1.94 dB	

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Rugged Android Table	st .		
MODEL NO.	GT7820 & GT7810 & 0	GT7820 & GT7810 & GT7800 & GT78		
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (Li-ion battery)			
MODULATION TYPE	Bluetooth EDR	GFSK, π/4-DQPSK, 8DPSK		
TRANSFER RATE	Bluetooth EDR 1/2/3Mbps			
OPERATING FREQUENCY	2402 ~ 2480MHz			
NUMBER OF CHANNEL	Bluetooth EDR 79			
CHANNEL SPACING	Bluetooth EDR 1MHz			
OUTPUT POWER	Bluetooth EDR	4.305mW		
ANTENNA TYPE	PIFA antenna with 2.7	0dBi gain		
ANTENNA CONNECTOR	NA			
DATA CABLE	Refer to Note as below			
I/O PORTS	Refer to user's manual			
ACCESSORY DEVICES	Refer to Note as below			

NOTE:

1. All models are listed as below.

BRAND MODEL DIFFERENCE					
	GT78	EUT without barcode			
Amobile	GT7800	EUT without barcode			
Amobile	GT7810	EUT with 1D barcode			
	GT7820	EUT with 2D barcode			
GT78 and GT7800 are electrically identical, different model names are for marketing purpose.					

2. Test Configurations are listed as below.

Sample	MODEL
Α	GT7800
В	GT7810
С	GT7820



3. The EUT contains following accessory devices.

ITEM	BRAND	MODEL	SPECIFICATION
Battery	JAPON	TP0750B01	3.8Vdc, 6200mAh
Earphone	HETONG	PY-1312602-09KB0 2	1.2m
USB Cable	miki	YXT-64-MK5P-1M	0.98m
LCD Panel	K&D	KD079D1-35NA-A1	7.8 Inch
Photo Camera	SEASONS	SPV6B9298	
Video Camera	Wdson	WDS1NA44W552	
WWAN Module	MTK	MT6166	
WLAN Module	MTK	MT6627	
CPU	MTK	MT8382	1.3GHZ
MainBoard	miki	P6128	
EMMC	N/A	NCEFES78-08G	8GB
bar code scanner (2D)	opticon	MDI-3100	
bar code scanner (1D)	opticon	MDC-100	

4. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

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3.2 DESCRIPTION OF TEST MODES

Bluetooth EDR:

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		

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3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

BLUETOOTH EDR

EUT CONFIGURE		APPLICA	ABLE TO	DESCRIPTION	
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
А	V	V	V	V	Sample C
В	V	\checkmark	\checkmark	-	Sample A
С	V	V	V	-	Sample B

Where

RE≥1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE: 1. For Radiated emission test, pre-tested GFSK, π/4-DQPSK, 8DPSK modulation type and found 8DPSK was the worse, therefore chosen for the final test and presented in the test report.

2. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	PACKET TYPE
А	0 to 78	0, 39, 78	8DPSK	DH5
B, C	0 to 78	78	8DPSK	DH5

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	PACKET TYPE
A, B, C	0 to 78	78	8DPSK	DH5

POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	PACKET TYPE	
A, B, C	0 to 78	78	8DPSK	DH5	

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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, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☐ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	PACKET TYPE	
А	0 to 78	0, 39, 78	GFSK	DH5	
А	0 to 78	0, 39, 78	π/4-DQPSK	DH5	
А	0 to 78	0, 39, 78	8DPSK	DH5	

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY		
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Hwa Chiang, Karl Lee		
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Harry Hsueh, Charles Hsiao		
PLC	25deg. C, 65%RH	120Vac, 60Hz	Toby Tian		
APCM	25deg. C, 65%RH	3.8Vdc	Taylor Liu		

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3.3 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.

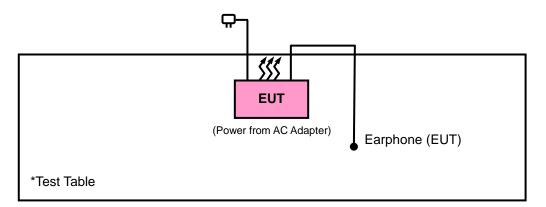
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID	
1	Bluetooth Tester	R&S	CBT	100980	N/A	
2	Adapter	AMIGO	AMS135-05020 00FU	N/A	N/A	

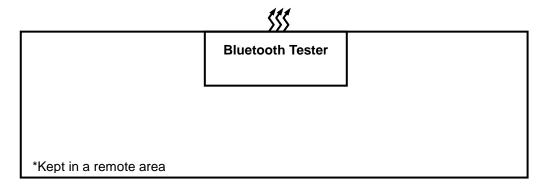
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	1.5m shielded cable w/o core

NOTE: 1. All power cords of the above support units are non shielded (1.8m).

2. Item 1 as a communication partner to transfer data.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST





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3.4 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 (15.247) ANSI C63.10-2013 FCC Public Notice DA 00-705

All test items have been performed and recorded as per the above standards.

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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4. TEST TYPES AND RESULTS (FOR BLUETOOTH EDR)

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. 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. 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.

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4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent Technologies	N9038A	MY52260177	May 19, 2015	May 18, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 10, 2014	Dec. 09, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 04, 2015	Feb. 04, 2016
HORN Antenna SCHWARZBECK	3117	00143293	Aug. 28, 2014	Aug. 27, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Aug. 27, 2014	Aug. 26, 2015
Loop Antenna	HFH2-Z2	100070	Mar. 06, 2014	Mar. 05, 2016
Preamplifier EMCI	EMC 012645	980115	Dec. 12, 2014	Dec. 11, 2015
Preamplifier EMCI	EMC 184045	980116	Jan. 09, 2015	Jan. 08, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 25, 2014	Dec. 24, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2014	Oct. 17, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2014	Oct. 17, 2015
RF signal cable Worken	RG-213	NA	Nov. 07, 2014	Nov. 06, 2015
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Bluetooth Tester	CBT	100980	Feb. 10, 2015	Feb. 09, 2016
Power Meter	ML2495A	1232002	Sep. 17, 2014	Sep. 16, 2015
Power Sensor	MA2411B	1207325	Sep. 17, 2014	Sep. 16, 2015

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 3. The test was performed in HwaYa Chamber 10.
- 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 5. The FCC Site Registration No. is 690701.
- 6. The IC Site Registration No. is IC 7450F-10.



4.1.3 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. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

- 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 1MHz 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.

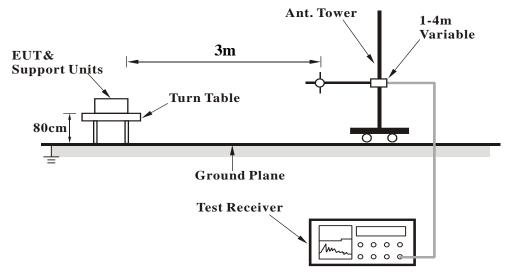
4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

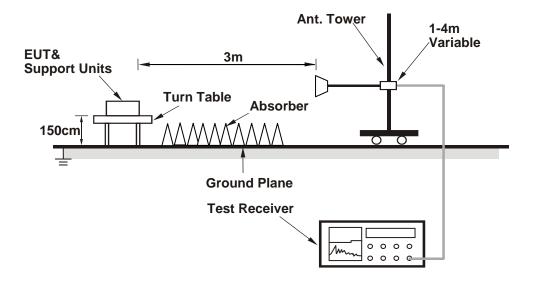


4.1.5 TEST SETUP

<Frequency Range 30MHz ~ 1GHz>



<Frequency Range above 1GHz>



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

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.



4.1.7 TEST RESULTS ABOVE 1GHz WORST-CASE DATA 8DPSK

MODE A

EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL	Channel 0	FREQUENCY RANGE	1GHz ~ 25GHz		
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Hwa Chiang		

	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
2350	39.79	37.81	54	-14.21	31.74	5.74	35.5	111	218	Average
2350	55.38	53.4	74	-18.62	31.74	5.74	35.5	111	218	Peak
2402	91.02	88.88			31.8	5.81	35.47	111	218	Average
2402	96.6	94.46			31.8	5.81	35.47	111	218	Peak
2484	40.18	37.82	54	-13.82	31.88	5.9	35.42	111	218	Average
2484	55.51	53.15	74	-18.49	31.88	5.9	35.42	111	218	Peak
		ANTENI	NA POLA	RITY & T	EST DIST	ANCE: V	ERTICAL	. 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
2362	39.87	37.87	54	-14.13	31.76	5.74	35.5	103	164	Average
2362	55.74	53.74	74	-18.26	31.76	5.74	35.5	103	164	Peak
2402	94.54	92.4			31.8	5.81	35.47	103	164	Average
2402	100.11	97.97			31.8	5.81	35.47	103	164	Peak
2498	40.13	37.71	54	-13.87	31.9	5.93	35.41	103	164	Average
2498	55.71	53.29	74	-18.29	31.9	5.93	35.41	103	164	Peak

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level – Limit value
- 2. 2402MHz: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 39		FREQUENCY RANGE	1GHz ~ 25GHz	
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Hwa Chiang	

	Α	NTENNA	A POLARI	TY & TE	ST DISTAN	NCE: HC	RIZONTA	AL 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
2384	39.6	37.54	54	-14.4	31.78	5.77	35.49	122	354	Average
2384	56.03	53.97	74	-17.97	31.78	5.77	35.49	122	354	Peak
2441	91.03	88.75			31.85	5.87	35.44	122	354	Average
2441	96.49	94.21			31.85	5.87	35.44	122	354	Peak
2500	40.15	37.73	54	-13.85	31.9	5.93	35.41	122	354	Average
2500	56.01	53.59	74	-17.99	31.9	5.93	35.41	122	354	Peak
		ANTENI	NA POLA	RITY & T	EST DIST	ANCE: \	/ERTICAL	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
2316	39.52	37.62	54	-14.48	31.71	5.71	35.52	102	162	Average
2316	56.43	54.53	74	-17.57	31.71	5.71	35.52	102	162	Peak
2441	95.31	93.03			31.85	5.87	35.44	102	162	Average
2441	100.87	98.59			31.85	5.87	35.44	102	162	Peak
2486	40.08	37.72	54	-13.92	31.88	5.9	35.42	102	162	Average

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level – Limit value
- 2. 2441MHz: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL	Channel 78	FREQUENCY RANGE	1GHz ~ 25GHz		
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Hwa Chiang		

	Α	NTENNA	A POLARI	TY & TE	ST DISTAN	NCE: HC	RIZONTA	AL 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
2378	39.58	37.52	54	-14.42	31.78	5.77	35.49	116	212	Average
2378	56.19	54.13	74	-17.81	31.78	5.77	35.49	116	212	Peak
2480	90.82	88.46			31.88	5.9	35.42	116	212	Average
2480	96.48	94.12			31.88	5.9	35.42	116	212	Peak
2490	40.45	38.04	54	-13.55	31.9	5.93	35.42	116	212	Average
2490	56.45	54.04	74	-17.55	31.9	5.93	35.42	116	212	Peak
		ANTENI	NA POLA	RITY & T	EST DIST	ANCE: V	ERTICAL	. AT 3 M		
FREQ. (MHz)	EMISSION LEVEL	READ LEVEL	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR	CABLE	PREAMP FACTOR	ANTENNA HEIGHT	TABLE ANGLE	REMARK
	(dBuV/m)	(dBuV)	(ubuv/iii)	(ub)	(dB/m)	(dB)	(dB)	(cm)	(Degree)	
2350	(dBuV/m) 39.53	(dBuV) 37.55	54	-14.47	(dB/m) 31.74	(dB) 5.74	(dB) 35.5	(cm) 100	(Degree) 159	Average
2350 2350	, ,	, ,	` ′	` ′		` '	` '	` ,		
	39.53	37.55	54	-14.47	31.74	5.74	35.5	100	159	Average
2350	39.53 55.89	37.55 53.91	54	-14.47	31.74 31.74	5.74 5.74	35.5 35.5	100	159 159	Average Peak
2350 2480	39.53 55.89 94.34	37.55 53.91 91.98	54	-14.47	31.74 31.74 31.88	5.74 5.74 5.9	35.5 35.5 35.42	100 100 100	159 159 159	Average Peak Average

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level – Limit value
- 2. 2480MHz: Fundamental frequency.



MODE B

EUT TEST CONDITION		MEASUREMENT DETAIL			
Channel 78		FREQUENCY RANGE	1GHz ~ 25GHz		
INPUT POWER	120Vac, 60 Hz		Peak (PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Karl Lee		

	A	NTENNA	POLARI	TY & TE	ST DISTAN	NCE: HC	RIZONTA	AL 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	39.55	37.82	54	-14.45	31.8	5.4	35.47	104	157	Average	
2390	55.75	54.02	74	-18.25	31.8	5.4	35.47	104	157	Peak	
2480	91.03	89.07			31.88	5.5	35.42	104	157	Average	
2480	96.56	94.6			31.88	5.5	35.42	104	157	Peak	
2484	40.38	38.42	54	-13.62	31.88	5.5	35.42	104	157	Average	
2484	56.6	54.64	74	-17.4	31.88	5.5	35.42	104	157	Peak	
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
		ANIENI	NA PULA	RIII & I	ו פוע ופ	ANCE: V	ERTICAL	. AI J WI			
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	
-	EMISSION LEVEL	READ LEVEL	LIMIT	MARGIN	ANTENNA FACTOR	CABLE	PREAMP FACTOR	ANTENNA HEIGHT	ANGLE	REMARK Average	
(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)	ANGLE (Degree)		
(MHz) 2390	EMISSION LEVEL (dBuV/m) 39.52	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m) 31.8	CABLE LOSS (dB)	PREAMP FACTOR (dB) 35.47	ANTENNA HEIGHT (cm)	ANGLE (Degree)	Average	
(MHz) 2390 2390	EMISSION LEVEL (dBuV/m) 39.52 56.14	READ LEVEL (dBuV) 37.79 54.41	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m) 31.8 31.8	CABLE LOSS (dB) 5.4 5.4	PREAMP FACTOR (dB) 35.47 35.47	ANTENNA HEIGHT (cm) 100	ANGLE (Degree) 343 343	Average Peak	
(MHz) 2390 2390 2480	EMISSION LEVEL (dBuV/m) 39.52 56.14 95.24	READ LEVEL (dBuV) 37.79 54.41 93.28	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m) 31.8 31.8 31.88	CABLE LOSS (dB) 5.4 5.4 5.5	PREAMP FACTOR (dB) 35.47 35.47 35.42	ANTENNA HEIGHT (cm) 100 100 100	ANGLE (Degree) 343 343 343	Average Peak Average	

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level – Limit value
- 2. 2480MHz: Fundamental frequency.



MODE C

EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL	Channel 78	FREQUENCY RANGE	1GHz ~ 25GHz		
INPUT POWER	120Vac, 60 Hz		Peak (PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Karl Lee		

	Α	NTENNA	A POLARI	TY & TE	ST DISTAN	NCE: HC	RIZONTA	AL 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
2350	40.31	38.74	54	-13.69	31.74	5.33	35.5	104	360	Average
2350	55.66	54.09	74	-18.34	31.74	5.33	35.5	104	360	Peak
2480	92.91	90.95			31.88	5.5	35.42	104	360	Average
2480	96.89	94.93			31.88	5.5	35.42	104	360	Peak
2498	39.98	37.96	54	-14.02	31.9	5.53	35.41	104	360	Average
2498	55.92	53.9	74	-18.08	31.9	5.53	35.41	104	360	Peak
		ANTENI	NA POLA	RITY & T	EST DIST	ANCE: V	/ERTICAL	. AT 3 M		
FREQ. (MHz)	EMISSION LEVEL	READ LEVEL	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR	CABLE	PREAMP FACTOR	ANTENNA HEIGHT	TABLE ANGLE	REMARK
	(dBuV/m)	(dBuV)	(aBaviii)	(ub)	(dB/m)	(dB)	(dB)	(cm)	(Degree)	
2390	40.41	(dBuV) 38.68	54	-13.59	(dB/m) 31.8	(dB) 5.4	(dB) 35.47	(cm) 114	(Degree) 326	Average
2390 2390	, ,	, ,	` ′	` ′	,	` ,	` '	` ,		
	40.41	38.68	54	-13.59	31.8	5.4	35.47	114	326	Average
2390	40.41 55.63	38.68 53.9	54	-13.59	31.8 31.8	5.4 5.4	35.47 35.47	114 114	326 326	Average Peak
2390 2480	40.41 55.63 96.2	38.68 53.9 94.24	54	-13.59	31.8 31.8 31.88	5.4 5.4 5.5	35.47 35.47 35.42	114 114 114	326 326 326	Average Peak Average

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level – Limit value
- 2. 2480MHz: Fundamental frequency.



BELOW 1GHz WORST-CASE DATA:

MODE A

EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL	ANNEL Channel 78		30MHz ~ 1GHz		
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Quasi-peak (QP)		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Harry Hsueh		

	A	NTENN	A POLARI	TY & TE	ST DISTAN	NCE: HC	RIZONTA	AL 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
87.24	29.26	51.25	40	-10.74	8.76	1.11	31.86	165	225	Peak
112.08	30.82	52.57	43.5	-12.68	9.22	1.28	32.25	174	185	Peak
246	26.04	43.47	46	-19.96	12.83	1.85	32.11	116	135	Peak
434.4	19.99	31.86	46	-26.01	17.81	2.49	32.17	165	198	Peak
593.3	22.8	31.27	46	-23.2	20.85	2.87	32.19	111	256	Peak
798.4	25.95	30.27	46	-20.05	24.42	3.32	32.06	116	189	Peak
		ANTENI	NA POLA	RITY & T	EST DIST	ANCE: V	/ERTICAL	. AT 3 M		
FREQ.	EMISSION LEVEL	READ LEVEL	LIMIT	MARGIN	ANTENNA FACTOR	CABLE	PREAMP	ANTENNA HEIGHT	TABLE	REMARK
, , , ,	(dBuV/m)	(dBuV)	(dBuV/m)	(dB)	(dB/m)	(dB)	(dB)	(cm)	(Degree)	REMARK
83.73	(dBuV/m) 30.79	(dBuV) 53.15	(dBuV/m) 40	(dB) -9.21						Peak
` ′	, ,	,	` ′	` ′	(dB/m)	(dB)	(dB)	(cm)	(Degree)	
83.73	30.79	53.15	40	-9.21	(dB/m) 8.59	(dB)	(dB) 32.06	(cm) 199	(Degree)	Peak
83.73 145.56	30.79 24.06	53.15 45.16	40 43.5	-9.21 -19.44	(dB/m) 8.59 9.79	(dB) 1.11 1.38	(dB) 32.06 32.27	(cm) 199 188	(Degree) 185 132	Peak Peak
83.73 145.56 240.6	30.79 24.06 18.61	53.15 45.16 36.3	40 43.5 46	-9.21 -19.44 -27.39	(dB/m) 8.59 9.79 12.59	(dB) 1.11 1.38 1.85	(dB) 32.06 32.27 32.13	(cm) 199 188 174	185 132 169	Peak Peak Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value

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MODE B

EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL	ANNEL Channel 78		30MHz ~ 1GHz		
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Quasi-peak (QP)		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Carles Hsiao		

	Α	NTENN	A POLARI	TY & TE	ST DISTAN	NCE: HC	RIZONTA	AL 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
30.27	26.72	40.7	40	-13.28	17.55	0.74	32.27	166	215	Peak
167.43	19.19	39.7	43.5	-24.31	10.22	1.52	32.25	157	184	Peak
247.35	19.53	36.91	46	-26.47	12.88	1.85	32.11	135	125	Peak
364.4	16.16	29.67	46	-29.84	16.34	2.26	32.11	144	158	Peak
624.1	22.39	29.53	46	-23.61	22.1	2.93	32.17	104	125	Peak
922.3	27.94	29.53	46	-18.06	26.2	3.53	31.32	177	195	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
		<u>AN I ENI</u>	NA POLA	RIIY&I	EST DISTA	ANCE: V	ERTICAL	. 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)	AT 3 M ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
•	EMISSION LEVEL	READ LEVEL	LIMIT	MARGIN	ANTENNA FACTOR	CABLE	PREAMP FACTOR	ANTENNA HEIGHT	ANGLE	REMARK QP
(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)	ANGLE (Degree)	
(MHz) 30.54	EMISSION LEVEL (dBuV/m) 37.05	READ LEVEL (dBuV) 51.26	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m) 17.31	CABLE LOSS (dB)	PREAMP FACTOR (dB) 32.26	ANTENNA HEIGHT (cm)	ANGLE (Degree)	QP
(MHz) 30.54 55.65	EMISSION LEVEL (dBuV/m) 37.05 21.8	READ LEVEL (dBuV) 51.26 45.92	LIMIT (dBuV/m) 40 40	MARGIN (dB) -2.95 -18.2	ANTENNA FACTOR (dB/m) 17.31 7.21	CABLE LOSS (dB) 0.74 0.9	PREAMP FACTOR (dB) 32.26 32.23	ANTENNA HEIGHT (cm) 166 188	ANGLE (Degree) 285 104	QP Peak
(MHz) 30.54 55.65 188.49	EMISSION LEVEL (dBuV/m) 37.05 21.8 16.29	READ LEVEL (dBuV) 51.26 45.92 36.53	LIMIT (dBuV/m) 40 40 43.5	MARGIN (dB) -2.95 -18.2 -27.21	ANTENNA FACTOR (dB/m) 17.31 7.21 10.4	CABLE LOSS (dB) 0.74 0.9 1.61	PREAMP FACTOR (dB) 32.26 32.23 32.25	ANTENNA HEIGHT (cm) 166 188 125	ANGLE (Degree) 285 104 302	QP Peak Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value



MODE C

EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL	ANNEL Channel 78		30MHz ~ 1GHz		
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Quasi-peak (QP)		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Carles Hsiao		

	Α	NTENNA	A POLARI	TY & TE	ST DISTAN	NCE: HC	RIZONTA	AL 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
30.27	24.72	38.7	40	-15.28	17.55	0.74	32.27	130	217	Peak
121.8	20.01	42.07	43.5	-23.49	8.8	1.38	32.24	120	88	Peak
189.84	21.38	41.62	43.5	-22.12	10.4	1.61	32.25	189	348	Peak
522.6	21.32	30.25	46	-24.68	20.51	2.7	32.14	105	51	Peak
668.2	23.43	29.33	46	-22.57	23.18	3.05	32.13	122	148	Peak
867	25.97	29.82	46	-20.03	24.4	3.44	31.69	125	196	Peak
		ANTENI	NA POLA	RITY & T	EST DIST	ANCE: V	ERTICAL	. AT 3 M		
FREQ.	EMISSION	READ			ANTENNA	CABLE	PREAMP	ANTENNA	TABLE	
(MHz)	LEVEL (dBuV/m)	LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	FACTOR (dB/m)	LOSS (dB)	FACTOR (dB)	HEIGHT (cm)	ANGLE (Degree)	REMARK
(MHz) 30.54					FACTOR	LOSS	FACTOR	HEIGHT	ANGLE	
, ,	(dBuV/m)	(dBuV)	(dBuV/m)	(dB)	FACTOR (dB/m)	LOSS (dB)	FACTOR (dB)	HEIGHT (cm)	ANGLE (Degree)	
30.54	(dBuV/m) 37.05	(dBuV) 51.26	(dBuV/m) 40	(dB) -2.95	FACTOR (dB/m) 17.31	LOSS (dB)	FACTOR (dB) 32.26	HEIGHT (cm) 155	ANGLE (Degree)	QP
30.54 81.03	(dBuV/m) 37.05 19.96	(dBuV) 51.26 42.56	(dBuV/m) 40 40	(dB) -2.95 -20.04	FACTOR (dB/m) 17.31 8.45	LOSS (dB) 0.74 1.11	FACTOR (dB) 32.26 32.16	HEIGHT (cm) 155 181	ANGLE (Degree) 215 3	QP Peak
30.54 81.03 188.49	(dBuV/m) 37.05 19.96 15.29	(dBuV) 51.26 42.56 35.53	(dBuV/m) 40 40 43.5	-2.95 -20.04 -28.21	FACTOR (dB/m) 17.31 8.45 10.4	LOSS (dB) 0.74 1.11 1.61	FACTOR (dB) 32.26 32.16 32.25	HEIGHT (cm) 155 181 188	ANGLE (Degree) 215 3 49	QP Peak Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value



4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 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.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Apr. 27, 2015	Apr. 26, 2016
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 26, 2014	Dec. 25, 2015
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 30, 2014	Dec. 29, 2015
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 21, 2015	Jul. 20, 2016
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



4.2.3 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.

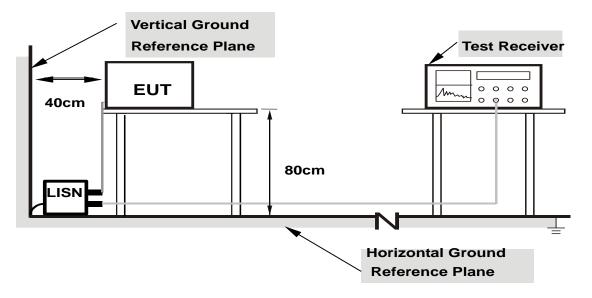
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



4.2.5 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).

4.2.6 EUT OPERATING CONDITIONS

Same as section 4.1.6.



4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

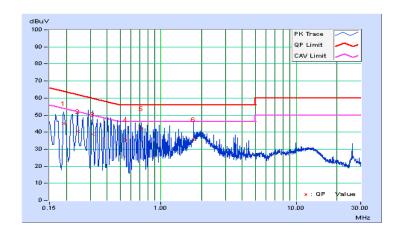
MODE A

PHASE	Line 1	6dB BANDWIDTH	9kHz
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	Phase Of Power : Neutral (N)									
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19013	0.06	45.04	23.51	45.10	23.57	64.03	54.03	-18.93	-30.46
2	0.24200	0.06	40.26	33.82	40.32	33.88	62.03	52.03	-21.71	-18.15
3	0.31400	0.06	38.63	17.78	38.69	17.84	59.86	49.86	-21.17	-32.02
4	0.54975	0.06	35.27	16.95	35.33	17.01	56.00	46.00	-20.67	-28.99
5	0.71400	0.07	42.15	20.35	42.22	20.42	56.00	46.00	-13.78	-25.58
6	1.74600	0.11	35.58	27.88	35.69	27.99	56.00	46.00	-20.31	-18.01

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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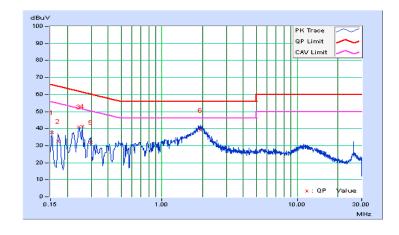


PHASE	Line 2	6dB BANDWIDTH	9kHz
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	Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor		Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		rgin B)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15400	0.05	37.76	27.09	37.81	27.14	65.78	55.78	-27.97	-28.64	
2	0.17022	0.05	32.58	20.30	32.63	20.35	64.95	54.95	-32.32	-34.60	
3	0.24420	0.05	40.87	36.08	40.92	36.13	61.95	51.95	-21.03	-15.82	
4	0.25800	0.05	41.49	32.85	41.54	32.90	61.50	51.50	-19.95	-18.59	
5	0.29677	0.05	32.10	22.59	32.15	22.64	60.33	50.33	-28.18	-27.69	
6	1.91800	0.11	39.08	34.04	39.19	34.15	56.00	46.00	-16.81	-11.85	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





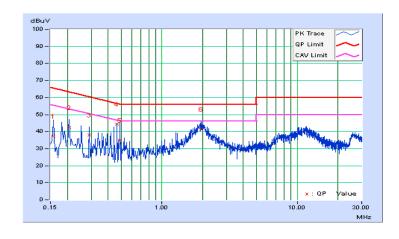
MODE B

PHASE	Line 1	6dB BANDWIDTH	9kHz
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	Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15800	0.05	37.27	23.88	37.32	23.93	65.57	55.57	-28.25	-31.64	
2	0.20600	0.06	42.45	25.63	42.51	25.69	63.37	53.37	-20.86	-27.68	
3	0.29000	0.06	38.00	21.02	38.06	21.08	60.52	50.52	-22.46	-29.44	
4	0.46600	0.06	44.27	21.83	44.33	21.89	56.58	46.58	-12.25	-24.69	
5	0.49000	0.06	35.12	20.37	35.18	20.43	56.17	46.17	-20.98	-25.73	
6	1.94190	0.12	41.18	33.89	41.30	34.01	56.00	46.00	-14.70	-11.99	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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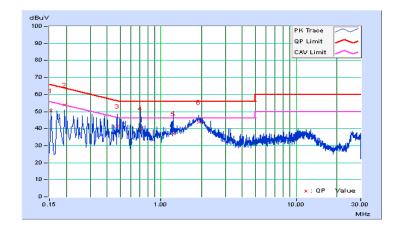


PHASE	Line 2	6dB BANDWIDTH	9kHz
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	Phase Of Power : Neutral (N)									
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	0.05	50.31	29.40	50.36	29.45	65.78	55.78	-15.42	-26.33
2	0.19400	0.05	53.87	33.53	53.92	33.58	63.86	53.86	-9.94	-20.28
3	0.47400	0.06	41.36	28.37	41.42	28.43	56.44	46.44	-15.02	-18.01
4	0.71000	0.07	40.09	28.04	40.16	28.11	56.00	46.00	-15.84	-17.89
5	1.23000	0.09	37.03	30.37	37.12	30.46	56.00	46.00	-18.88	-15.54
6	1.89400	0.11	43.50	38.22	43.61	38.33	56.00	46.00	-12.39	-7.67

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





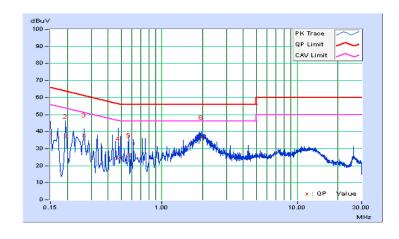
MODE C

PHASE	Line 1	6dB BANDWIDTH	9kHz
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	Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV) (nit uV)	Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15000	0.05	38.65	28.69	38.70	28.74	66.00	56.00	-27.30	-27.26	
2	0.19400	0.06	37.18	22.85	37.24	22.91	63.86	53.86	-26.62	-30.95	
3	0.26600	0.06	38.05	32.51	38.11	32.57	61.24	51.24	-23.13	-18.67	
4	0.47800	0.06	24.04	15.89	24.10	15.95	56.37	46.37	-32.27	-30.42	
5	0.56740	0.07	26.11	11.95	26.18	12.02	56.00	46.00	-29.82	-33.98	
6	1.94600	0.12	36.49	29.32	36.61	29.44	56.00	46.00	-19.39	-16.56	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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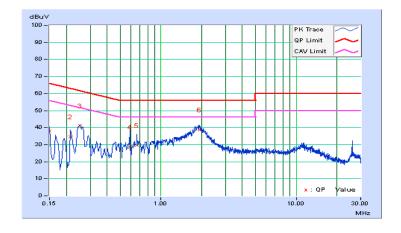


PHASE	Line 2	6dB BANDWIDTH	9kHz
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Phase Of Power : Neutral (N)												
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)			
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.15000	0.05	37.85	25.92	37.90	25.97	66.00	56.00	-28.10	-30.03		
2	0.21406	0.05	34.74	25.87	34.79	25.92	63.05	53.05	-28.26	-27.13		
3	0.25205	0.05	40.88	30.28	40.93	30.33	61.69	51.69	-20.76	-21.36		
4	0.59000	0.07	28.46	21.10	28.53	21.17	56.00	46.00	-27.47	-24.83		
5	0.66200	0.07	29.61	24.90	29.68	24.97	56.00	46.00	-26.32	-21.03		
6	1.93400	0.11	38.57	33.65	38.68	33.76	56.00	46.00	-17.32	-12.24		

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



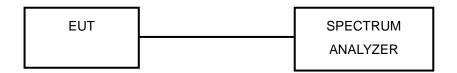


4.3 NUMBER OF HOPPING FREQUENCY USED

4.3.1 LIMIT OF HOPPING FREQUENCY USED

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

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.3.4 TEST PROCEDURE

- 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 complete.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

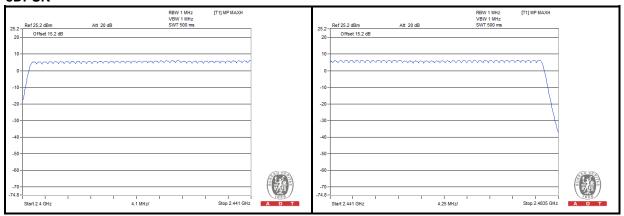
4.3.6 TEST RESULTS

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

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8DPSK



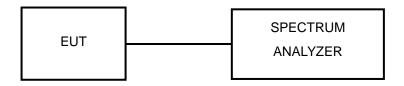


4.4 DWELL TIME ON EACH CHANNEL

4.4.1 LIMITS 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.

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.4.4 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.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.



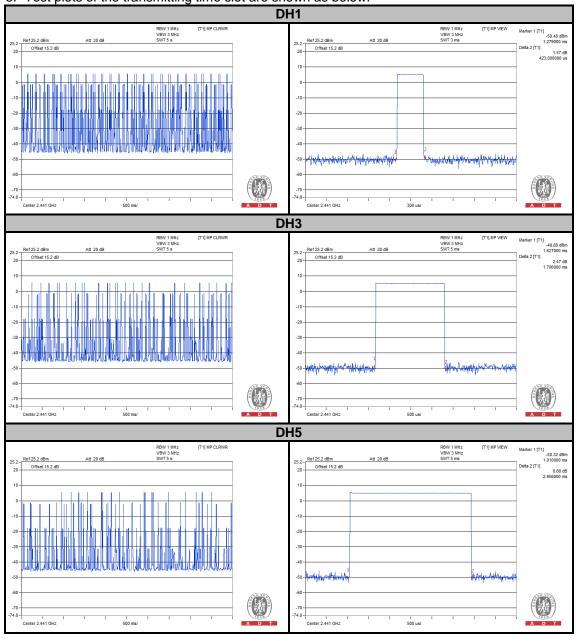
4.4.6 TEST RESULTS

GFSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
DH1	10.00	423.00	0.13	0.4
DH3	5.20	1706.00	0.28	0.4
DH5	3.40	2956.00	0.32	0.4

NOTE:

- 1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
- 2. 79 channels come from the Hopping Channel number
- 3. Average Hopping Channel = hops/sweep time
- 4. t: Package Transfer Time(us)
- 5. Test plots of the transmitting time slot are shown as below.



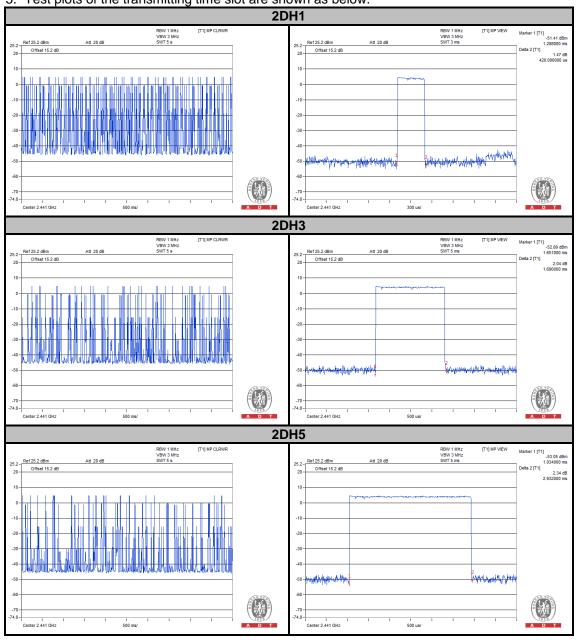


π/4-DQPSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
2DH1	10.40	428.00	0.14	0.4
2DH3	5.00	1690.00	0.27	0.4
2DH5	3.40	2932.00	0.32	0.4

NOTE:

- Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
 79 channels come from the Hopping Channel number
- 3. Average Hopping Channel = hops/sweep time4. t: Package Transfer Time(us)
- 5. Test plots of the transmitting time slot are shown as below.





8DPSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
3DH1	10.20	428.00	0.14	0.4
3DH3	5.00	1714.00	0.27	0.4
3DH5	3.60	2932.00	0.33	0.4

NOTE:

- 1. Dwell Time=79(channels) \times 0.4(s) \times average hopping channel \times package transfer time
- 2. 79 channels come from the Hopping Channel number
- 3. Average Hopping Channel = hops/sweep time4. t: Package Transfer Time(us)
- 5. Test plots of the transmitting time slot are shown as below.



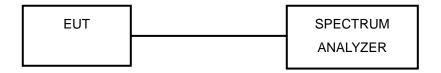


4.5 CHANNEL BANDWIDTH

4.5.1 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 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.5.4 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.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

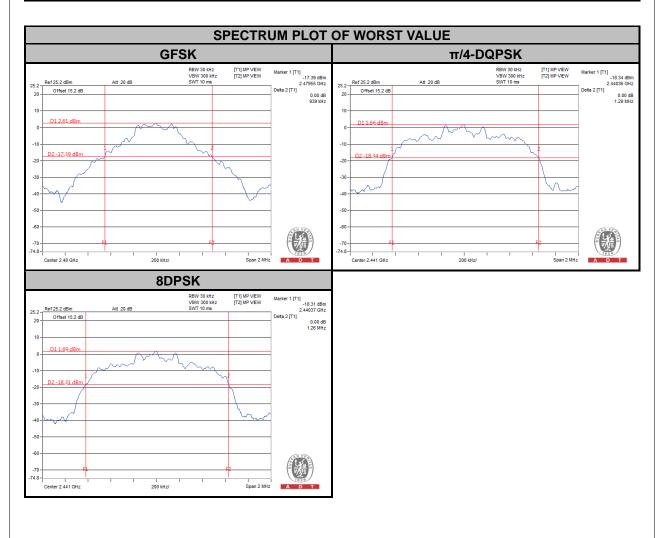
4.5.6 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



4.5.7 TEST RESULTS

CHANNEL	FREQUENCY	20dB BANDWIDTH (MHz)					
0117444422	(MHz)	GFSK	π/4-DQPSK	8DPSK			
0	2402	0.89	1.28	1.25			
39	2441	0.94	1.29	1.26			
78	2480	0.94	1.29	1.26			



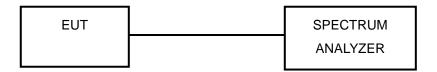


4.6 HOPPING CHANNEL SEPARATION

4.6.1 LIMITS OF HOPPING CHANNEL SEPARATION

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

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.6.4 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.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

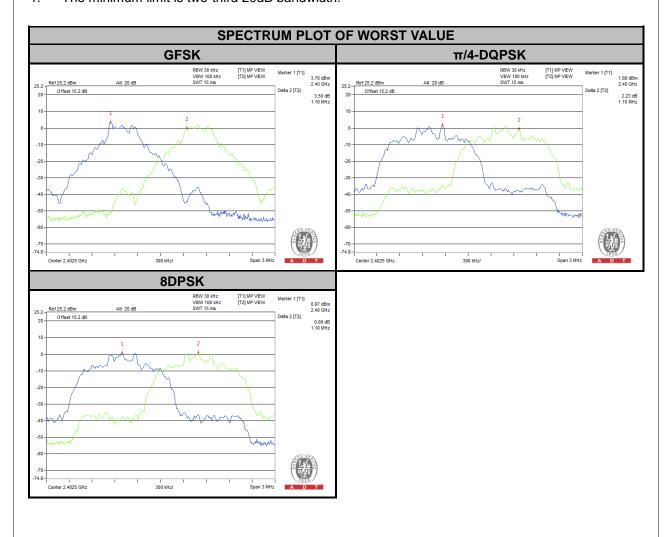


4.6.6 TEST RESULTS

CHAN.	FREQ. (MHz)		CENT CHA SEPARATIOI (MHz)		20dB BANDWIDTH (MHz) MINIMUM LIMIT (MHz)		(MHz)	PASS / FAIL			
		GFSK	π/4-DQPSK	8DPSK	GFSK	π/4-DQPSK	8DPSK	GFSK	π/4-DQPSK	8DPSK	
0	2402	1.10	1.10	1.10	0.89	1.28	1.25	0.595	0.595	0.833	PASS
39	2441	1.10	1.00	1.00	0.94	1.29	1.26	0.625	0.625	0.840	PASS
78	2480	1.00	1.00	1.00	0.94	1.29	1.26	0.626	0.626	0.840	PASS

NOTE:

1. The minimum limit is two-third 20dB bandwidth.



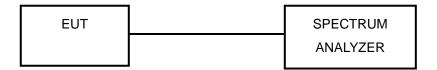


4.7 MAXIMUM OUTPUT POWER

4.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

4.7.2 TEST SETUP



4.7.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.7.4 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. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 3MHz RBW and 10 MHz VBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

4.7.5 DEVIATION FROM TEST STANDARD

No deviation.

4.7.6 EUT OPERATING CONDITION

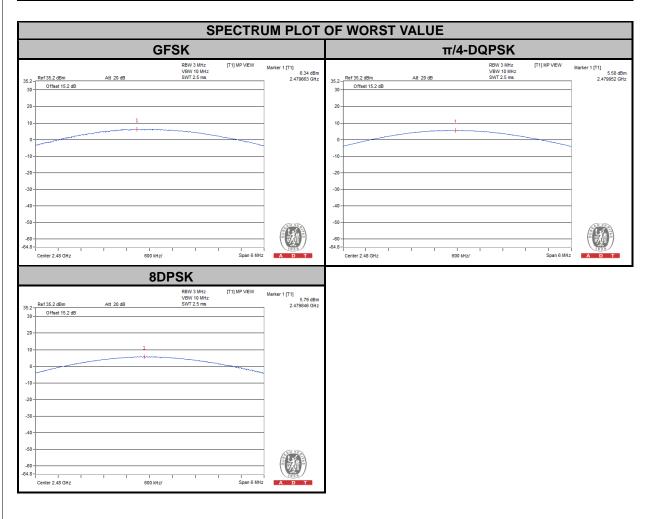
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

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4.7.7 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	OUTPUT POWER (mW)			OUTPUT POWER (dBm)			POWER LIMIT	PASS / FAIL
		GFSK	π/4-DQPSK	8DPSK	GFSK	π/4-DQPSK	8DPSK	(mW)	
0	2402	3.491	2.979	3.119	5.43	4.74	4.94	125	PASS
39	2441	4.083	3.475	3.664	6.11	5.41	5.64	125	PASS
78	2480	4.305	3.614	3.793	6.34	5.58	5.79	125	PASS





4.8 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.8.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

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

4.8.2 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.8.3 TEST PROCEDURE

- Set RBW = 100 kHz.
- 2. Set VBW = 300 kHz.
- 3. Set span to encompass the spectrum to be examined.
- 4. Detector = peak.
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.

4.8.4 DEVIATION FROM TEST STANDARD

No deviation.

4.8.5 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit continuously.

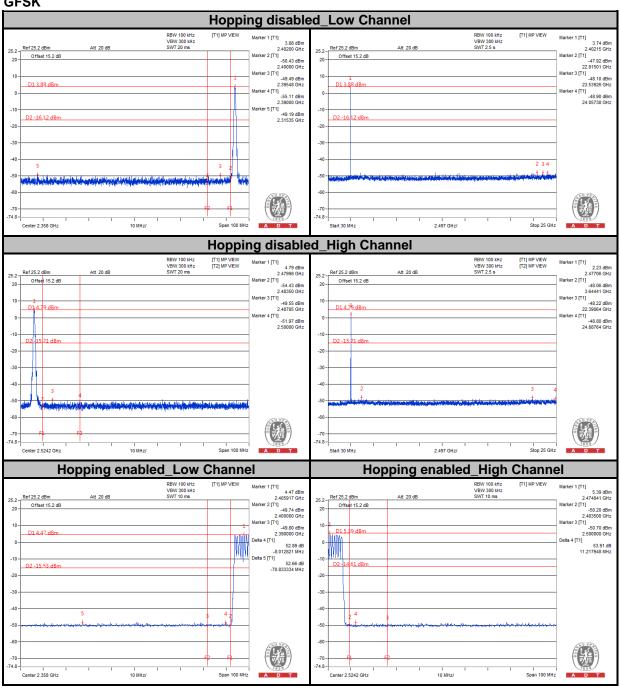
4.8.6 TEST RESULTS

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 with the requirement.

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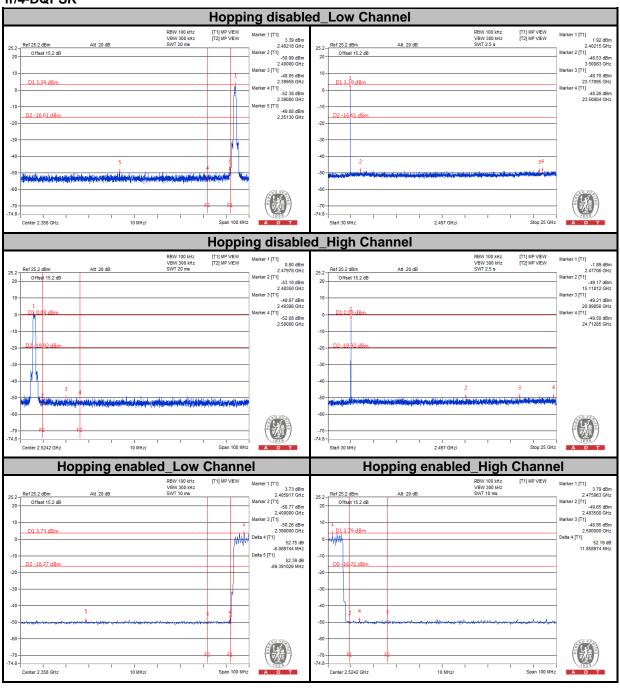


GFSK



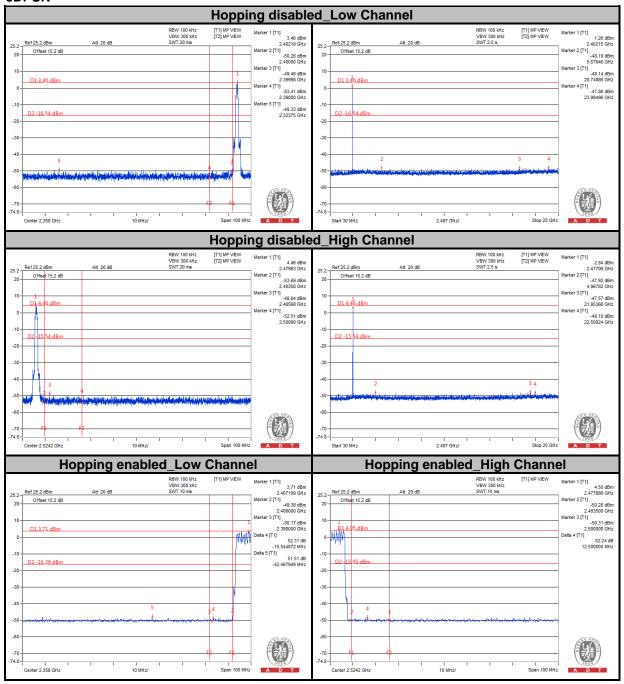


π/4-DQPSK





8DPSK





5. PHOTOGRAPHS OF THE TEST CONFIGURATION Please refer to the attached file (Test Setup Photo).
Please refer to the attached file (Test Setup Photo).

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6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Hsin Chu EMC/RF/Telecom Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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7. APPENDIX A – 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.
END

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