

FCC Test Report

FCC ID : ACQ-IP900

Equipment : Set Top Box

Model No. : IP900

Brand Name : ARRIS

Applicant : ARRIS Group, Inc.

Address : 101 Tournament Drive, Horsham PA, 19044

Standard : 47 CFR FCC Part 15.247

Received Date : May 03, 2017

Tested Date : May 05 ~ May 10, 2017

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: Approved by:

Along Chen Assistant Manager Gary Chang / Manager

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FR750302AC	Rev. 01	Initial issue	Jun. 30, 2017
FR750302AC	Rev. 02	Revised antenna gain	Jul. 21, 2017

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	15.207 Conducted Emissions [dBuV]: 0.315MHz 36.09 (Margin -13.75dB) - A		Pass
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 39.86MHz	Pass
15.209	Natiated Effissions	35.44 (Margin -4.56dB) - QP	r ass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 1.79	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

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1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information						
Frequency Range (MHz) Ch. Frequency Channel Number Data R				Data Rate		
2425~2475	RF4CE	2425~2475	15-25 [3]	250kbps		
Note 1: RF4CE uses DSSS-O-QPSK modulation.						

1.1.2 Antenna Details

Ant. No.	Туре	Connector	Gain (dBi)	Remarks
1	Printing Antenna	No	3.0	

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
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1.1.4 Accessories

	Accessories				
No.	Equipment	Description			
1 Adapter I/P: 100-120Vac, 60Hz O/P: 12Vdc, 1.5A		Model Name: ADS-25FSG-12 12018EPCU-L I/P: 100-120Vac, 60Hz			
2	Adapter	Brand Name: KUANTECH (Ktec) Model Name: KSASB0241200150HU I/P: 100-240Vac, 50-60Hz O/P: 12Vdc, 1.5A Power line: 1.92m non-shielded without core			
3	Remote control	Brand: REMOTESOLUTION CO.,LTD Model: SBOM_01031_000			

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1.1.5 Channel List

Channel No.	Frequency (MHz)
15	2425
20	2450
25	2475

1.1.6 Test Tool and Duty Cycle

Test Tool	cmd
Duty Cycle Of Test Signal (%)	19.07%
Duty Factor (dB)	7.20

1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
DSSS	2425	3
DSSS	2450	3
DSSS	2475	3

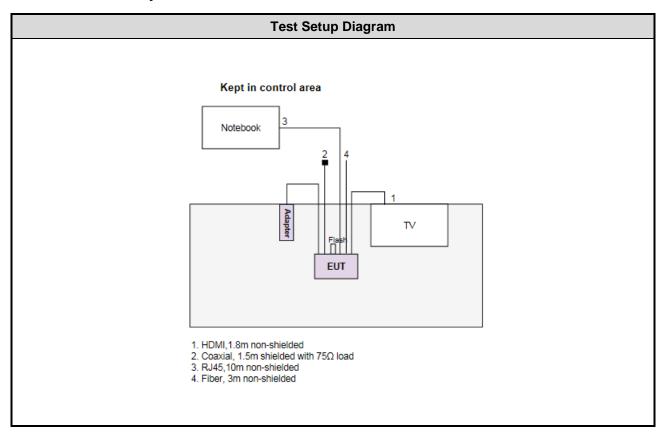
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1.2 Local Support Equipment List

Support Equipment List							
No. Equipment Brand Model FCC ID Signal cable / Length							
1	Notebook	DELL	Latitude E5420	DoC	RJ45, 10m non-shielded.		
2	2 TV ViewSonic		VS16006		HDMI, 1.8m non-shielded.		
3	USB Flash	Kingston	DTSE9				

1.3 Test Setup Chart



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1.4 The Equipment List

Test Item	Conducted Emission						
Test Site	Conduction room 1 / (CO01-WS)						
Instrument	ument Manufacturer Model No. Serial No. Calibration Date Calibration Until						
Receiver	R&S	ESR3	101657	Dec. 21, 2016	Dec. 20, 2017		
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 08, 2016	Nov. 07, 2017		
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 20, 2016	Dec. 19, 2017		
Measurement Software AUDIX e3 6.120210k NA NA							
Note: Calibration Interval of instruments listed above is one year.							

Test Item	Radiated Emission					
Test Site	966 chamber1 / (03CH01-WS)					
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until	
Spectrum Analyzer	R&S	FSV40	101498	Nov. 25, 2016	Nov. 24, 2017	
Receiver	R&S	ESR3	101658	Nov. 24, 2016	Nov. 23, 2017	
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 04, 2016	Aug. 03, 2017	
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 21, 2016	Dec. 20, 2017	
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017	
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017	
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017	
Preamplifier	EMC	EMC02325	980225	Aug. 05, 2016	Aug. 04, 2017	
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2016	Oct. 05, 2017	
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 09, 2016	Dec. 08, 2017	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 09, 2016	Dec. 08, 2017	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 09, 2016	Dec. 08, 2017	
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 09, 2016	Dec. 08, 2017	
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 09, 2016	Dec. 08, 2017	
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 09, 2016	Dec. 08, 2017	
Measurement Software AUDIX e3 6.120210g NA NA						
Note: Calibration Inter	rval of instruments liste	d above is one year.				

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Test Item	RF Conducted							
Test Site	(TH01-WS)	(TH01-WS)						
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until			
Spectrum Analyzer	R&S	FSV40	101063	Mar. 15, 2017	Mar. 14, 2018			
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017			
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017			
AC POWER SOURCE	APC	AFC-500W	F312060012	Oct. 28, 2016	Oct. 27, 2017			
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA			
Note: Calibration Inter	Note: Calibration Interval of instruments listed above is one year.							

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247 ANSI C63.10-2013 FCC KDB 558074 D01 DTS Meas Guidance v04

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty				
Parameters	Uncertainty			
Bandwidth	±34.134 Hz			
Conducted power	±0.808 dB			
Power density	±0.463 dB			
Conducted emission	±2.670 dB			
AC conducted emission	±2.90 dB			
Radiated emission ≤ 1GHz	±3.66 dB			
Radiated emission > 1GHz	±5.63 dB			

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2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 55%	Alex Tsai
Radiated Emissions	03CH01-WS	22°C / 66%	Aska Huang
RF Conducted	TH01-WS	23°C / 63%	Brad Wu

FCC Designation No.: TW2732
 FCC site registration No.: 181692
 IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate
Conducted Emissions	DSSS	2425	250kbps
Radiated Emissions ≤1GHz	DSSS	2425	250kbps
Radiated Emissions >1GHz Maximum Output Power 6dB bandwidth Power spectral density	DSSS	2425 / 2450 / 2475	250kbps

NOTE:

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^{1.} The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.



3 Transmitter Test Results

3.1 Conducted Emissions

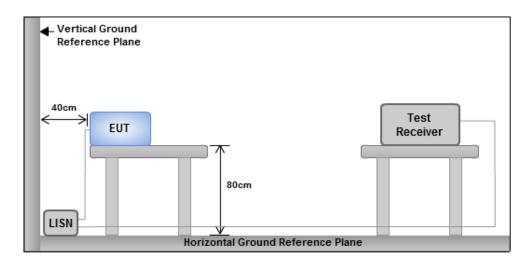
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit						
Frequency Emission (MHz) Quasi-Peak Average						
0.15-0.5	66 - 56 *	56 - 46 *				
0.5-5	56	46				
5-30 60 50						
Note 1: * Decreases with the logarithm of the frequency.						

3.1.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- 2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup



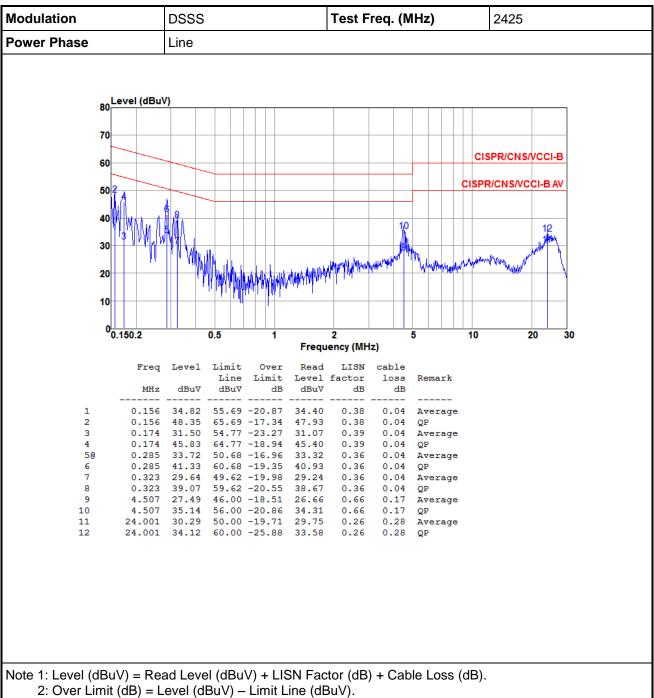
Note: 1. Support units were connected to second LISN.

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

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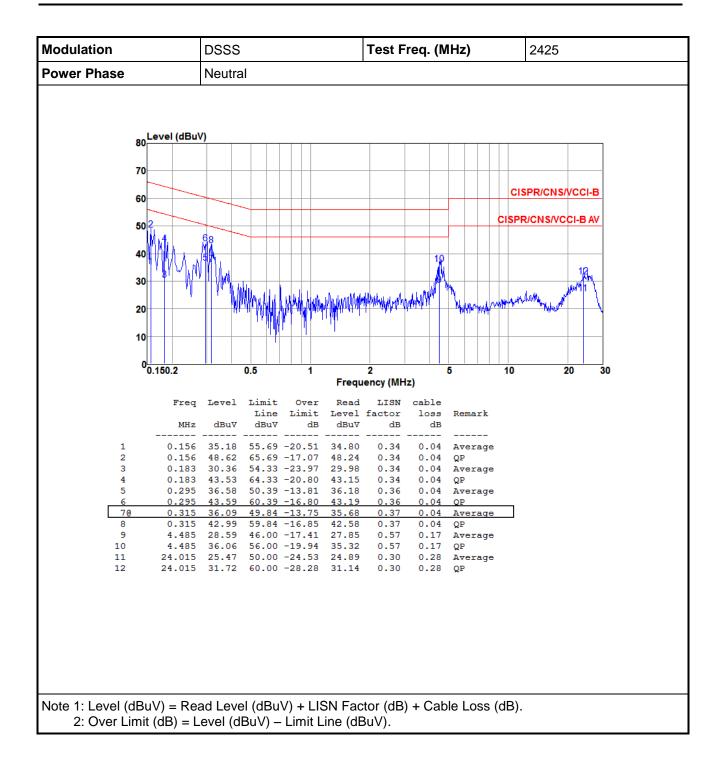
Test Result of Conducted Emissions 3.1.4



2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

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3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

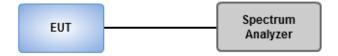
6dB Bandwidth

- 1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
- 2. Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

- 1. Set resolution bandwidth (RBW) = 1 MHz, Video bandwidth = 3 MHz.
- 2. Detector = Sample, Trace mode = max hold.
- 3 Sweep = auto couple, Allow the trace to stabilize.
- 4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.2.3 Test Setup

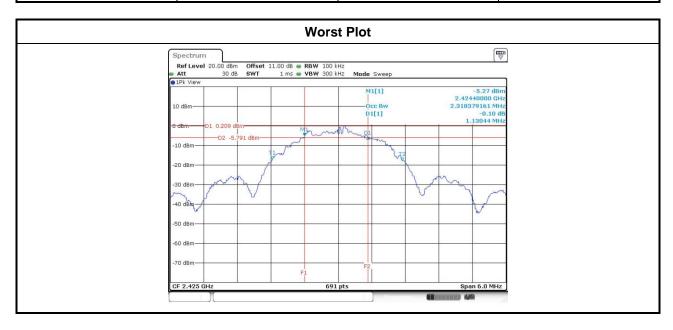


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3.2.4 Test Result of 6dB and Occupied Bandwidth

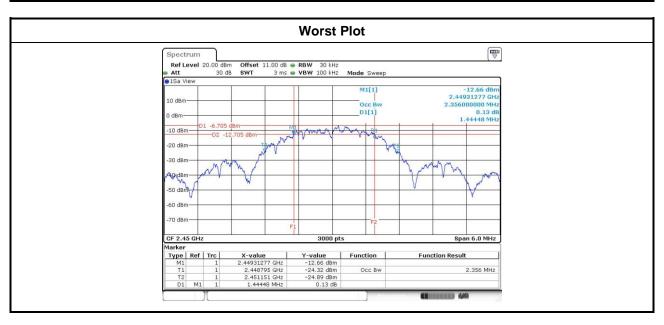
Modulation Mode	Freq. (MHz)	6dB Bandwidth (MHz)	Limit (kHz)
DSSS	2425	1.130	500
DSSS	2450	1.209	500
DSSS	2475	1.226	500



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Modulation Mode	Freq. (MHz)	99% Occupied Bandwidth (MHz)
DSSS	2425	2.34
DSSS	2450	2.36
DSSS	2475	2.34



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3.3 RF Output Power

3.3.1 Limit of RF Output Power

Con	duct	ed power shall not exceed 1Watt.
\boxtimes	Ant	enna gain <= 6dBi, no any corresponding reduction is in output power limit.
	Ant	enna gain > 6dBi
		Non Fixed, point to point operations. The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB
		Fixed, point to point operations Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.
		Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

Maximum Peak Conducted Output Power

□ Spectrum analyzer

- 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
- 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
- 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.

Nower meter

- A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- Maximum Conducted Output Power (For reference only)

Nower meter

 A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup



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3.3.4 Test Result of Maximum Output Power

	Peak conducted Output Power (dBm)						
Modulation Mode	ation de Freq. (MHz) Total Power (dBm) Limit (dBm) Ant. Gain (dBm) EIRP (dBm) (dBm) (dBm)						
DSSS	2425	1.510	1.79	30	3.0	4.79	36
DSSS	2450	1.377	1.39	30	3.0	4.39	36
DSSS	2475	1.236	0.92	30	3.0	3.92	36

	Conducted (Average) Output Power (dBm)						
Modulation Mode Freq. (MHz) Total Power (mW) Total Power (dBm)							
DSSS	2425	1.493	1.74				
DSSS	2450	1.358	1.33				
DSSS	2475	1.222	0.87				

Note: Conducted average output power is for reference only.

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3.4 Power Spectral Density

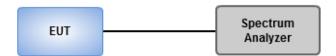
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

- Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 - Set the RBW = 3kHz, VBW = 10kHz.
 - Detector = Peak, Sweep time = auto couple.
 - 3. Trace mode = max hold, allow trace to fully stabilize.
 - 4. Use the peak marker function to determine the maximum amplitude level.
- Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 - Set the RBW = 100kHz, VBW = 300 kHz.
 - 2. Detector = RMS, Sweep time = auto couple.
 - 3. Set the sweep time to: ≥ 10 x (number of measurement points in sweep) x (maximum data rate per stream).
 - 4. Perform the measurement over a single sweep.
 - 5. Use the peak marker function to determine the maximum amplitude level.

3.4.3 Test Setup

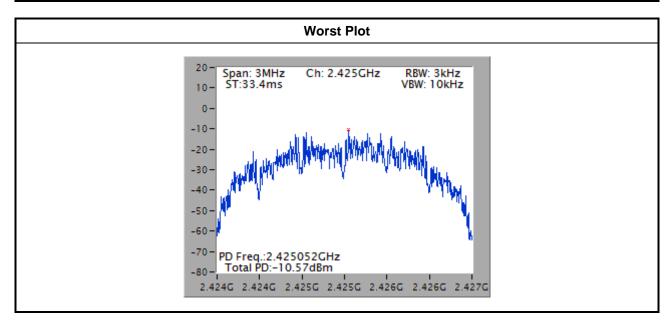


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3.4.4 Test Result of Power Spectral Density

Modulation Mode	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
DSSS	2425	-10.57	8
DSSS	2450	-10.94	8
DSSS	2475	-11.76	8



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3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

	Restricted Band	Emissions Limit	
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit **Note 2:**

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

- 1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

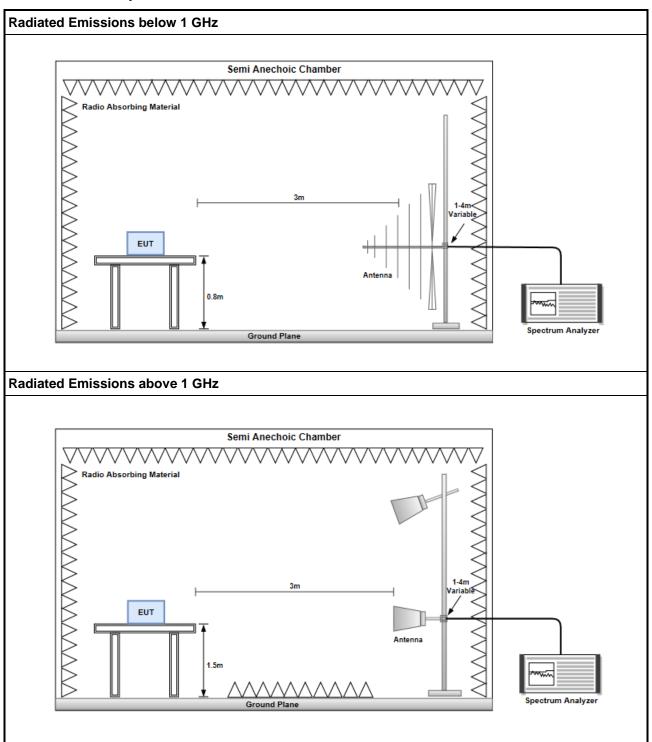
Note:

- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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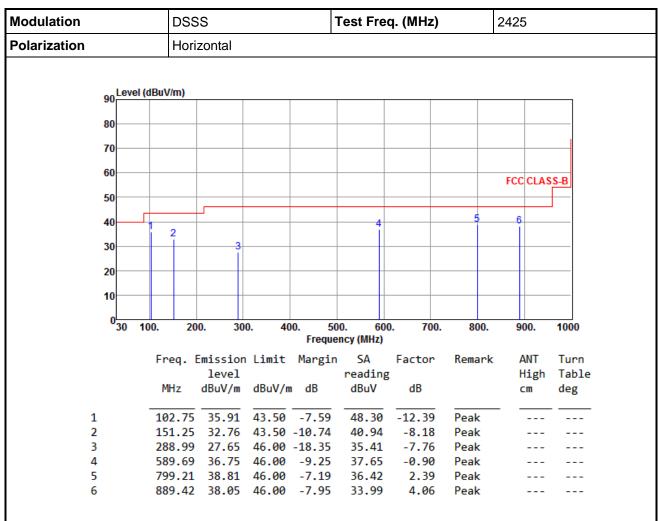
3.5.3 Test Setup



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3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

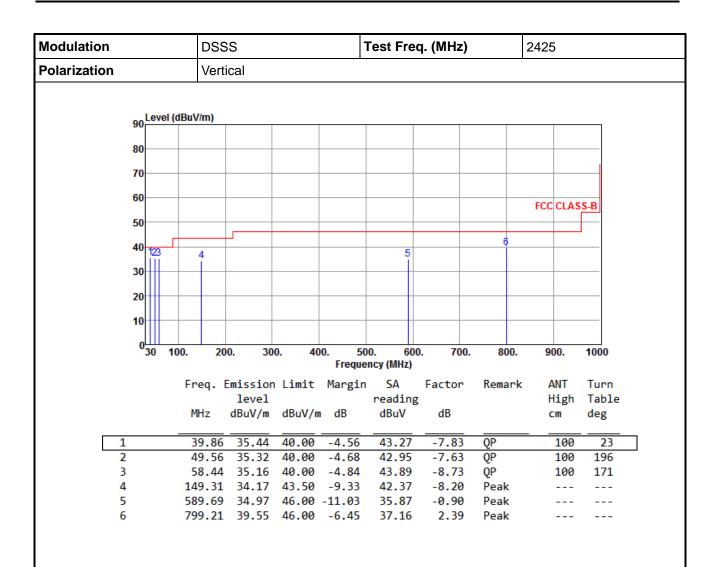
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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*Factor includes antenna factor, cable loss and amplifier gain

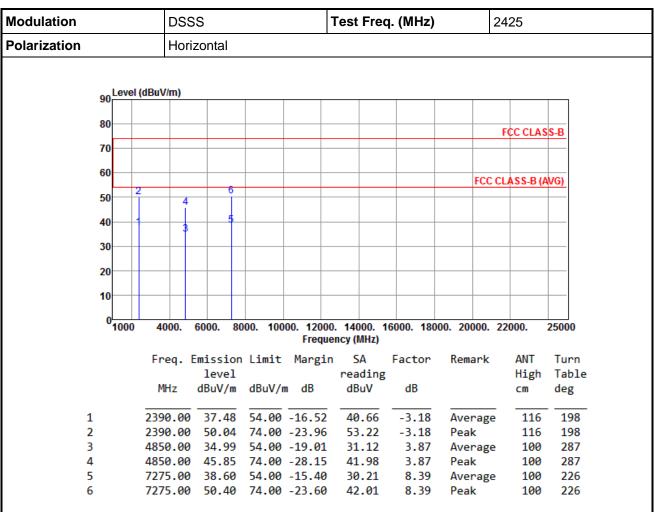
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

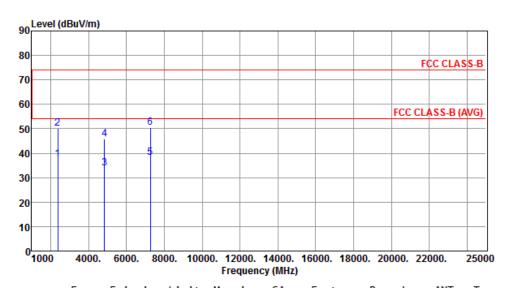
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	DSSS	Test Freq. (MHz)	2425
Polarization	Vertical		

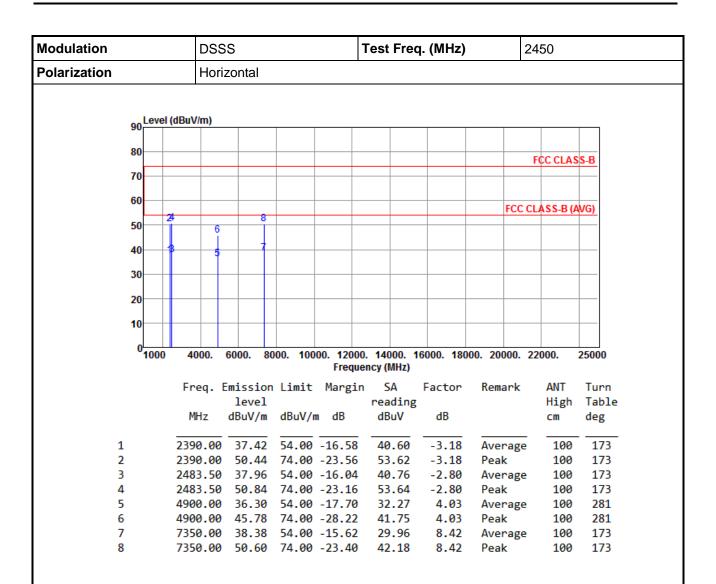


	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	37.55	54.00	-16.45	40.73	-3.18	Average	100	151
2	2390.00	50.14	74.00	-23.86	53.32	-3.18	Peak	100	151
3	4850.00	33.98	54.00	-20.02	30.11	3.87	Average	100	2
4	4850.00	45.86	74.00	-28.14	41.99	3.87	Peak	100	2
5	7275.00	38.11	54.00	-15.89	29.72	8.39	Average	100	143
6	7275.00	50.53	74.00	-23.47	42.14	8.39	Peak	100	143

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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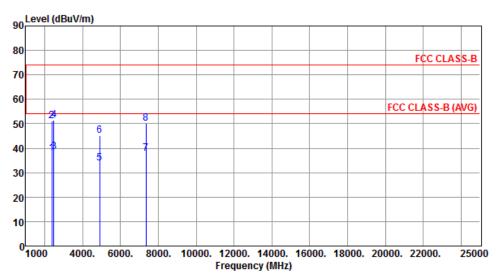
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	DSSS	Test Freq. (MHz)	2450
Polarization	Vertical		



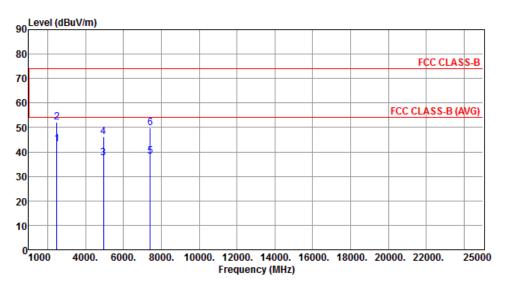
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	2390.00	37.91	54.00	-16.09	41.09	-3.18	Average	100	152
2	2390.00	51.16	74.00	-22.84	54.34	-3.18	Peak	100	152
3	2483.50	38.47	54.00	-15.53	41.27	-2.80	Average	100	152
4	2483.50	51.54	74.00	-22.46	54.34	-2.80	Peak	100	152
5	4900.00	33.77	54.00	-20.23	29.74	4.03	Average	100	2
6	4900.00	45.02	74.00	-28.98	40.99	4.03	Peak	100	2
7	7350.00	37.97	54.00	-16.03	29.55	8.42	Average	100	175
8	7350.00	50.18	74.00	-23.82	41.76	8.42	Peak	100	175

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	DSSS	Test Freq. (MHz)	2475
Polarization	Horizontal		



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		CM	deg
1	2483.50	43.19	54.00	-10.81	45.99	-2.80	Average	109	197
2	2483.50	52.28	74.00	-21.72	55.08	-2.80	Peak	109	197
3	4950.00	37.48	54.00	-16.52	33.30	4.18	Average	100	279
4	4950.00	46.25	74.00	-27.75	42.07	4.18	Peak	100	279
5	7425.00	38.11	54.00	-15.89	29.62	8.49	Average	100	168
6	7425.00	49.85	74.00	-24.15	41.36	8.49	Peak	100	168

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation		DSSS				Test Freq. (MHz)			2475		
Polarization			Vertical								
	_ Le	vel (d	BuV/m)								
	90										
	80									FCC CLAS	e D
	70									FCC CLAS	3-В
	10										
	60	+-							FCC	CLASS-B (A	VG)
	50	2		6						, d	
		-	1								
	40	$\dashv f$	3								
	30										
	20										
	10	_									
	0 <mark>10</mark>	000	4000.	6000. 80	000. 100). 14000. 1 ency (MHz)	6000. 180	00. 20000.	22000.	25000
			Frea. E	missior	Limit	Margin	SA	Factor	Remark	ANT	Turn
			•	level		Ü	reading			High	Table
			MHz	dBuV/m	dBuV/	m dB	dBuV	dB		cm	deg
_		-					40. 25				
1			2483.50				42.38	-2.80	Average		174
2			2483.50			-21.96	54.84 31.19	-2.80 4.18	Peak Average	100 100	174 2
4						-28.00	41.82	4.18	Peak	100	2
5						-16.24	29.27	8.49	Average		156
_											

8.49

Peak

100

156

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

7425.00 50.21 74.00 -23.79 41.72

*Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

3.6.2 Test Procedures

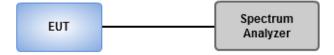
Reference level measurement

- 1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

- 1. Set RBW=100kHz, VBW = 300kHz, Detector = Peak, Sweep time = Auto
- 2. Trace = max hold, Allow Trace to fully stabilize
- 3. Scan Frequency range is up to 25GHz
- 4. Use the peak marker function to determine the maximum amplitude level

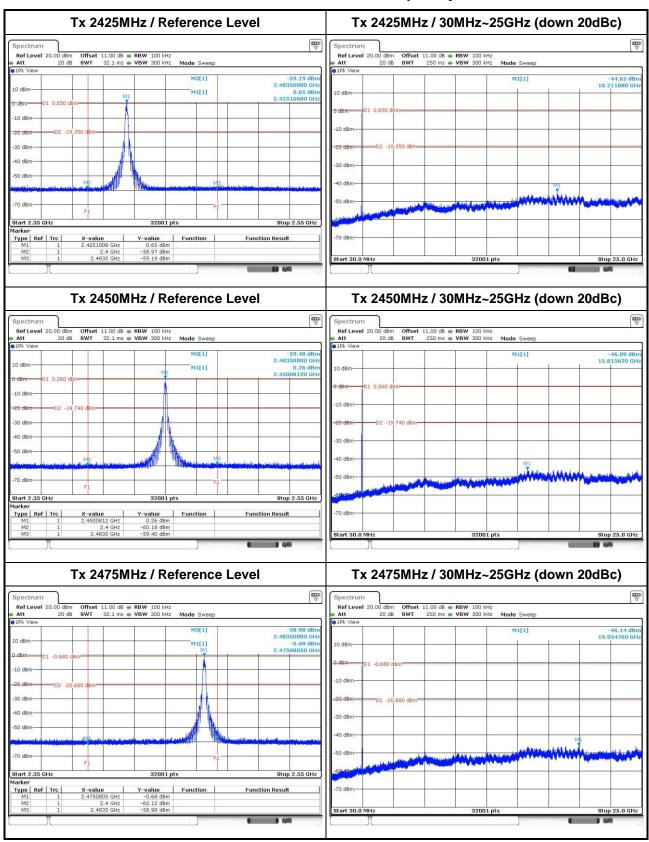
3.6.3 Test Setup



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3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands



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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640 No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City,

Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666 No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666 Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

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