# Test Report of FCC CFR 47 Part 15 Subpart C

# On Behalf of

# **Prentke Romich Company**

FCC ID:	2AD9PACN1400P	RC	
<b>Product Description:</b>	Accent 1400		
Model No.:	ACN1400		
Supplementary Model:	N/A		
Brand Name:	Accent <sub>1400</sub>		
Prepared for:	Prentke Romich (	Company	
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# 1. GENERAL INFORMATION

# 1.1 Product Description for Equipment Under Test (EUT)

#### **Client Information**

Applicant:	Prentke Romich Company		
Address of Applicant:	1022 Heyl Rd. Wooster, Ohio 44691		
Manufacturer:	Prentke Romich Company		
Address of Manufacturer:	1022 Heyl Rd. Wooster, Ohio 44691		

# **General Description of E.U.T**

Items	Description
EUT Description:	Accent 1400
Model No.:	ACN1400
Trade Name:	Accent <sub>1400</sub>
Supplementary Model:	N/A
BT Module	CSR 4.0
Frequency Band:	2402~2480MHz
Number of Channels:	40
Type of Modulation:	GFSK, Pi/4 DQPSK, 8-DPSK(Only GFSK Modulation technology was tested in this report.)
Antenna Gain	0.88 dBi
Antenna Type:	Integral Antenna
Rated Voltage:	Input: 18VDC 3.4A from AC/DC adapter;7.4VDC from battery
Adapter Information:	Model No:MENB1060A1800N02;
	Manufacturer: SL POWER and AULT
	Input: 100-240V~ 50-60Hz 1.5A Max; Output:18.0V 3.4A

<sup>\*</sup> The test data gathered are from the production sample provided by the manufacturer.

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#### 1.2 Test Standards

The tests were performed based on the Electromagnetic Interference (EMI) tests performed on the EUT. Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 – 2009 Radiated testing was performed at an antenna to EUT distance 3 meters.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.207, 15.209 and 15.247 rules and the FCC publication KDB558074 of Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247).

#### 1.3 Test Facility

All measurement required was performed at laboratory of Shenzhen CTL Testing Technology Co., Ltd. at Floor 1-A,Baisha Technology Park,No.3011,Shahexi Road, Nanshan District, Shenzhen, China 518055.

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS - Registration No.: L5540

Shenzhen CTL Testing Technology Co., Ltd. To ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. The acceptance letter from the CNAS is maintained in our files: Registration: L5540, March, 2012.

#### FCC - Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been Registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration:970318, December 19, 2013.

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#### 2. SYSTEM TEST CONFIGURATION

#### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### 2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

#### 2.3 General Test Procedures

Conducted Emissions:The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

#### 2.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

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# 2.5 List of Measuring Equipments Used

Test equipments list of Shenzhen CTL Testing Technology Co., Ltd.

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	Sunol Sciences Corp.	JB1 Antenna	A061713	2014.05.22
2	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCI	1166.5950.03	2014.03.19
3	Coaxial	/	/	/	2014.05.22
4	Controller	EM Electronics	Controller EM 1000	N/A	2014.05.22
5	Horn antenna	Sunol sciences corp	DRH-118	A062013	2014.07.22
6	Horn antenna	SCHWARZBECK	BBHA9710	1562	2014.07.22
7	Loop antenna	ZHINAN	ZN30900A	3548	2014.07.22
8	Amplifier	HP	8447D	1937A02492	2014.4.25
9	Broadband preamplifier	SCH WARZBECK	BBV9718	9718-182	2014.4.25
10	Spectrum Analyzer	R&S	FSP	100397	2014.05.22

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# 3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207	AC Power Line Conducted Emission	Pass
FCC §15.247(b)	Maximum Peak Output Power	Pass
FCC §15.247(e)	Power Spectral Density	Pass
FCC §15.247(a)	6dB Bandwidth	Pass
FCC §15.247 (d)	Conducted Spurious Emission	Pass
FCC §15.205 and §15.209	Radiated Spurious Emission	Pass
FCC §15.203/15.247(b)/(c)	Antenna Requirement	Pass

# 4. TEST OF AC POWER LINE CONDUCTED EMISSION

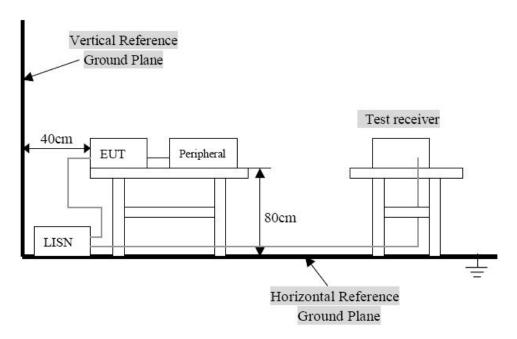
# 4.1 Applicable Standard

Refer to FCC §15.207.

For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency Range (MHz)	Limits ( dBuV)			
Frequency Range (WITIZ)	Quasi-Peak	Average		
0.150~0.500	66∼56	56∼46		
0.500~5.000	56	46		
5.000~30.00	60	50		

# 4.2 Test Setup Diagram



Remark: The EUT was connected to a 120 VAC/ 60Hz power source.

#### 4.3 Test Result

Temperature ( $^{\circ}$ ) : 23~25	EUT: Accent 1400		
Humidity (%RH ): 45~58	M/N: ACN1400		
Barometric Pressure ( mbar ): 950~1000	Operation Condition: Charging with Tx Mode		

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#### **Conducted Emission:**

EUT: Accent 1400 M/N: ACN1400

Operating Condition: Charging with Tx Mode

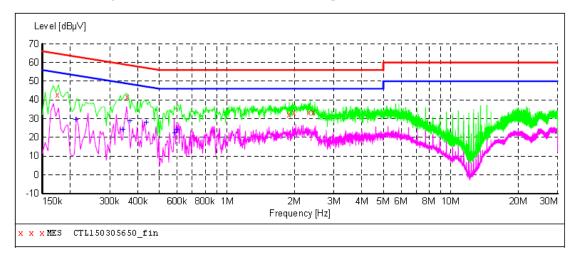
Test Site: Shielded Room

Operator: Yang

Test Specification: AC 120V/60Hz for adapter

Comment: L Line

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



#### MEASUREMENT RESULT: "CTL150305650 fin"

3/5/201 Freq	5 9:21 <i>A</i> uency MHz	M Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.1	74000	42.80	10.2	65	22.0	QP	L1	GND
0.3	58000	41.70	10.2	59	17.1	QP	L1	GND
1.8	86000	32.20	10.3	56	23.8	QP	L1	GND
1.9	88000	33.30	10.3	56	22.7	QP	L1	GND
2.3	18000	33.40	10.4	56	22.6	QP	L1	GND
2 4	26000	33 30	10 4	56	22.7	OΒ	т.1	CIVID

#### MEASUREMENT RESULT: "CTL150305650 fin2"

9:21AM						
-4			Margin dB	Detector	Line	PE
000 29	.50 10.2	53	23.7	AV	L1	GND
000 24	.30 10.2	49	24.9	AV	L1	GND
000 29	.00 10.2	49	19.6	AV	L1	GND
000 27	.90 10.2	47	19.3	AV	L1	GND
000 22	.50 10.2	46	23.5	AV	L1	GND
000 24	.10 10.2	46	21.9	AV	L1	GND
	MHŽ d 000 29 000 24 000 29 000 27 000 22	ncy         Level         Transd           MHz         dBμV         dB           000         29.50         10.2           000         24.30         10.2           000         29.00         10.2           000         27.90         10.2           000         22.50         10.2	ncy         Level Transd Limit           MHz         dBμV         dB dBμV           000         29.50         10.2         53           000         24.30         10.2         49           000         29.00         10.2         49           000         27.90         10.2         47           000         22.50         10.2         46	ncy         Level         Transd         Limit         Margin           MHz         dBμV         dB         dBμV         dB           000         29.50         10.2         53         23.7           000         24.30         10.2         49         24.9           000         29.00         10.2         49         19.6           000         27.90         10.2         47         19.3           000         22.50         10.2         46         23.5	ncy         Level         Transd         Limit         Margin         Detector           MHz         dBμV         dB         dBμV         dB           000         29.50         10.2         53         23.7         AV           000         24.30         10.2         49         24.9         AV           000         29.00         10.2         49         19.6         AV           000         27.90         10.2         47         19.3         AV           000         22.50         10.2         46         23.5         AV	ncy         Level         Transd         Limit         Margin         Detector         Line           MHz         dBμV         dB         dBμV         dB         Detector         Line           000         29.50         10.2         53         23.7         AV         L1           000         24.30         10.2         49         24.9         AV         L1           000         29.00         10.2         49         19.6         AV         L1           000         27.90         10.2         47         19.3         AV         L1           000         22.50         10.2         46         23.5         AV         L1

#### **Conducted Emission:**

EUT: Accent 1400 M/N: ACN1400

Operating Condition: Charging with Tx Mode

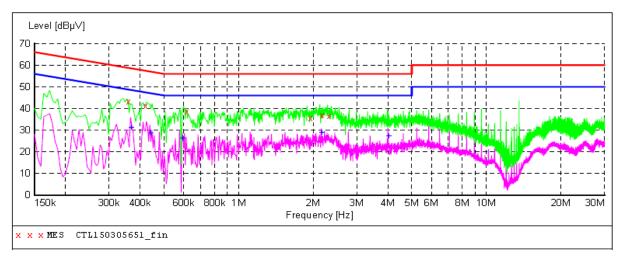
Test Site: Shielded Room

Operator: Yang

Test Specification: AC 120V/60Hz for adapter

Comment: N Line

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



#### MEASUREMENT RESULT: "CTL150305651\_fin"

3/5/2015 Frequ		M Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.35	8000	43.30	10.2	59	15.5	QP	N	GND
0.41	.8000	41.10	10.2	58	16.4	QP	N	GND
0.61	4000	38.50	10.2	56	17.5	QP	N	GND
1.93	4000	35.50	10.3	56	20.5	QP	N	GND
2.16	2000	36.90	10.4	56	19.1	QP	N	GND
2.30	16000	36.50	10.4	56	19.5	QP	N	GND

#### MEASUREMENT RESULT: "CTL150305651 fin2"

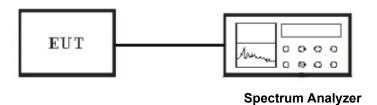
3/5/2015	9:25AM							
Freque	ncy L	evel Tra	ansd Lir	nit Ma	rgin 1	Detector	Line	PE
	MHz	dΒμV	dB dI	βµV	dB			
0.366	000 3	1.30	10.2	49	17.3	AV	N (	GND
0.438	000 2	8.80	10.2	47	18.3	AV	N (	GND
0.590	000 2	6.30	10.2	46	19.7	AV	N ·	GND
2.162	000 2	9.10	10.4	46	16.9	AV	N ·	GND
4.010	000 2	7.30	1 N . 4	46	18.7	AV	N ·	CINE

# 5. Test of Maximum Peak Output Power

#### 5.1 Applicable Standard

Refer to FCC §15.247 (b)

#### 5.2 EUT Setup



#### 5.3 Test Equipment List and Details

See section 2.5.

#### **5.4 Test Procedure**

This procedure should only be used when the maximum available RBW of the spectrum/signal analyzer is less than the DTS bandwidth. The transmitter output was connected to a spectrum analyzer and the parameter was set as below:

- 1. Set the RBW = maximum available (at least 1 MHz).
- 2. Set the VBW = 3 x RBW or maximum available setting (must be  $\geq$  RBW).
- 3. Set the span to fully encompass the DTS bandwidth.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some analyzers, this may require a manual override to ensure use of peak detector). If the spectrum analyzer does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

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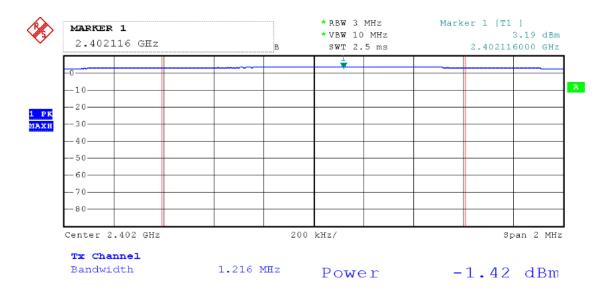
# 5.5 Test Result

Temperature ( °C ) : 22~23	EUT: Accent 1400
Humidity (%RH ): 50~54	M/N: ACN1400
Barometric Pressure ( mbar ): 950~1000	Operation Condition: Tx Mode

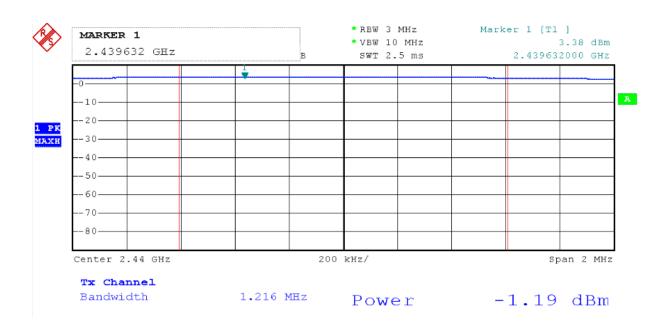
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	Peak Power (dBm)	Peak Power Limit (dBm)	Pass / Fail
Low	2402	1.216	-1.42	30	PASS
Middle	2440	1.216	-1.19	30	PASS
High	2480	1.216	-1.24	30	PASS

NOTE: 1. At finial test to get the emission at LE mode.

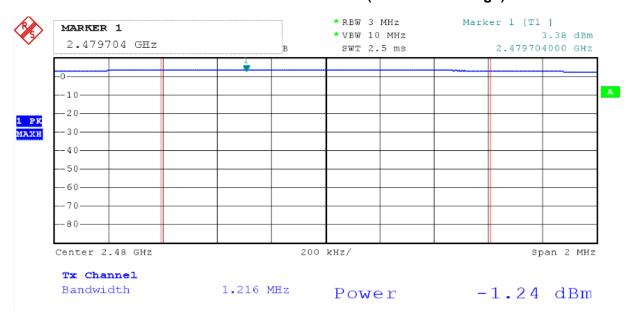
# MAXIMUM PEAK OUTPUT POWER ( LE MODE CH Low)



#### MAXIMUM PEAK OUTPUT POWER (LE MODE CH Mid)



# MAXIMUM PEAK OUTPUT POWER ( LE MODE CH High)



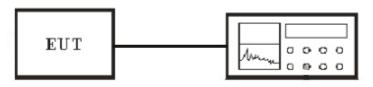
# 6. Test of Peak Power Spectral Density

#### 6.1 Applicable Standard

Refer to FCC §15.247 (e).

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 6.2 EUT Setup



Spectrum Analyzer

### 6.3 Test Equipment List and Details

See section 2.5.

#### **6.4 Test Procedure**

The transmitter output was connected to the spectrum analyzer and the parameter was set as below:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW  $\geq$  3 kHz.
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

# 6.5 Test Result

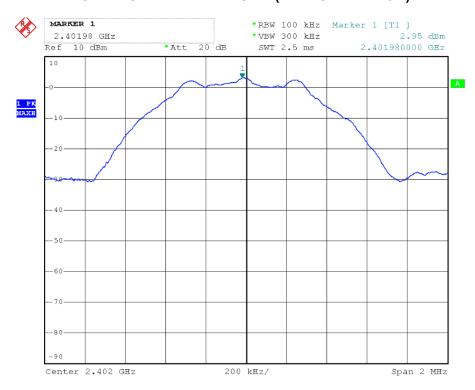
Temperature ( °C ): 22~23	EUT: Accent 1400
Humidity (%RH ): 50~54	M/N: ACN1400
Barometric Pressure ( mbar ): 950~1000	Operation Condition: Tx Mode

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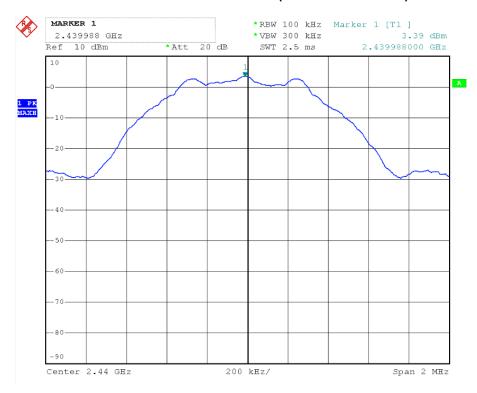
Channel	Channel Frequency (MHz)	RF Power Level in 100KHz RBW (dBm)	Correct Factor 100KHz to 3KHz (dB)	Final RF Power Level in 3KHz RBW (dBm)	Maximum Limit (dBm)	Pass / Fail
Low	2402	2.95	-15.22	-12.27	8	PASS
Middle	2440	3.39	-15.22	-11.83	8	PASS
High	2480	5.95	-15.22	-9.27	8	PASS

NOTE: 1. At finial test to get the emission at LE mode.

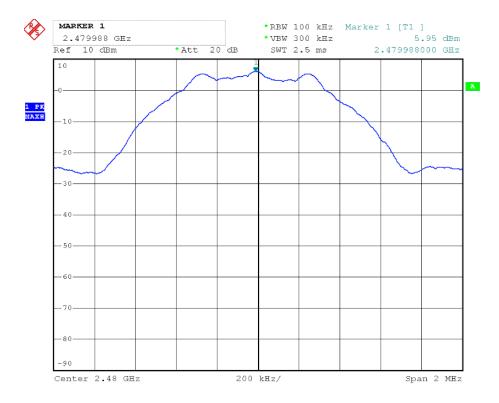
# POWER SPECTRAL DENSITY ( LE MODE CH Low)



# POWER SPECTRAL DENSITY ( LE MODE CH Mid)



# POWER SPECTRAL DENSITY (LE MODE CH High)



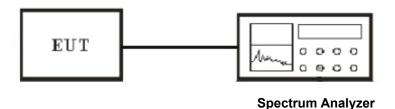
#### 7. Test of 6dB Bandwidth

#### 7.1 Applicable Standard

Refer to FCC §15.247 (a) (2) .

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

#### 7.2 EUT Setup



### 7.3 Test Equipment List and Details

See section 2.5.

#### 7.4 Test Procedure

The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. The transmitter output was connected to a spectrum analyzer and the parameter was set as below:

- 1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. 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 6 dB relative to the maximum level measured in the fundamental emission.

## 7.5 Test Result

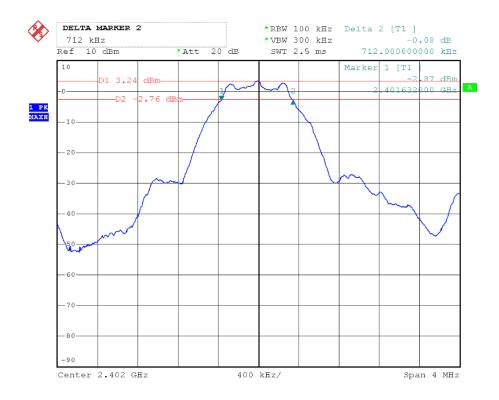
Temperature ( $^{\circ}$ C ): 22~23	EUT: Accent 1400
Humidity (%RH ): 50~54	M/N: ACN1400
Barometric Pressure ( mbar ): 950~1000	Operation Condition: Tx Mode

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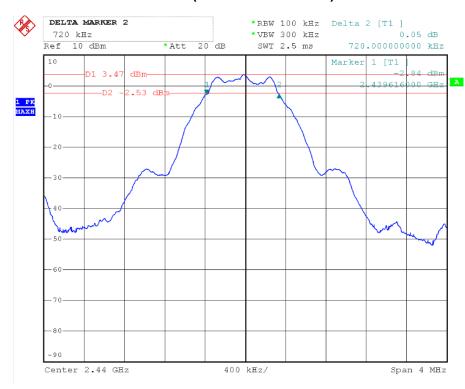
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2402	10.24	712	PASS
Middle	2440	10.24	720	PASS
High	2480	10.24	712	PASS

NOTE: 1. At finial test to get the emission at LE mode.

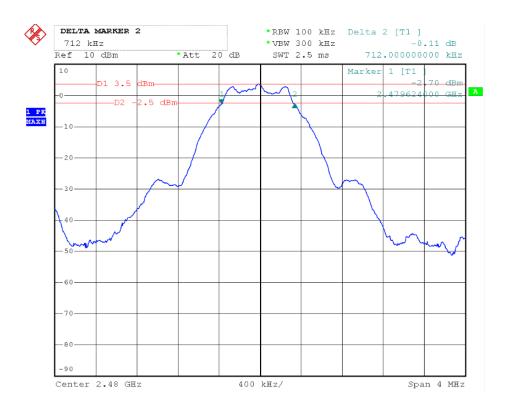
# 6dB BANDWIDTH ( LE MODE CH Low)



# 6dB BANDWIDTH ( LE MODE CH Mid)



# 6dB BANDWIDTH ( LE MODE CH High)



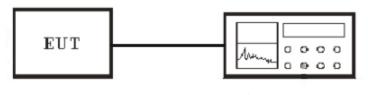
# 8. Test of Conducted Spurious Emission

#### 8.1 Applicable Standard

Refer to FCC §15.247 (d)

Output power was measured based on the use of RMS averaging over a time interval, therefore the required attenuation is 30 dB.

### 8.2 EUT Setup



# Spectrum Analyzer

## 8.3 Test Equipment List and Details

See section 2.5.

#### 8.4 Test Procedure

The transmitter output was connected to a spectrum analyzer. The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band. The parameter of the spectrum analyzer was set as below:

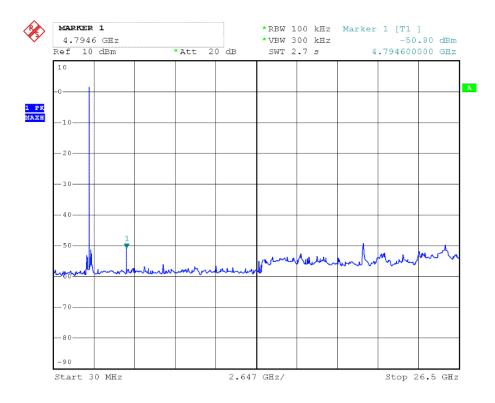
- 1. Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW  $\geq$  300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

#### 8.5 Test Result

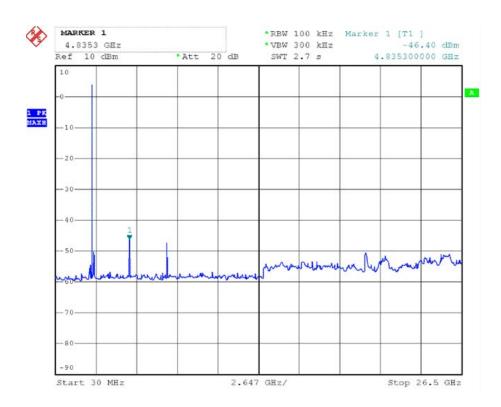
Temperature ( °C ) : 22~23	EUT: Accent 1400
Humidity (%RH ): 50~54	M/N: ACN1400
Barometric Pressure ( mbar ): 950~1000	Operation Condition: TX Mode

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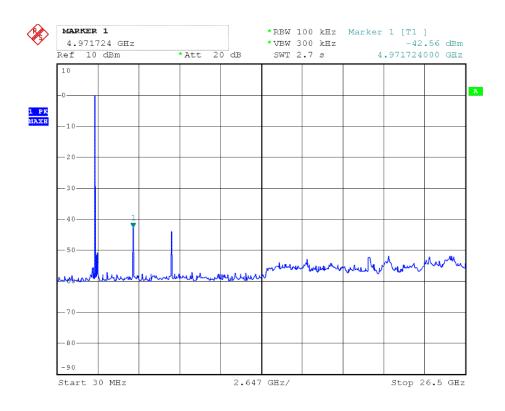
#### **CH Low**



#### **CH Mid**



# CH High



# 9. Test of Radiated Spurious Emission

#### 9.1 Radiated Spurious Emission

#### **9.1.1 Limits**

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41			

15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

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\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this Part, e-g, Sections 15.231 and 15.241. 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

### 9.1.2 EUT Setup

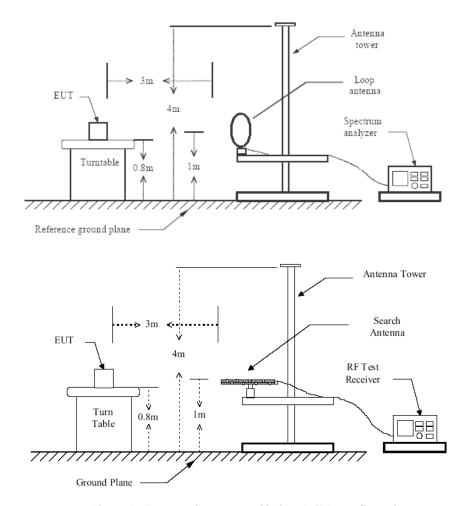


Figure 1: Frequencies measured below 1 GHz configuration

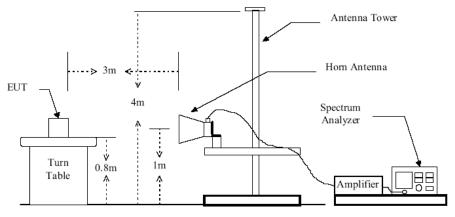


Figure 2: Frequencies measured above 1 GHz configuration

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#### 9.1.3 Test Procedure

- 1. Configure the EUT according to ANSI C63.4-2009
- 2. The EUT was placed on the top of the turntable 0.8 meter above ground.
- 3. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 4. For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. According to the characteristic of the EUT crystals, the range of frequencies was investigated from 9KHz to 30MHz, 30MHz to 1GHz and 1GHz to 24.8GHz.
- 6. Any testing performed below 30 MHz was performed using a magnetic loop antenna in accordance with ANSI C63.10: section 4.5, Table 1
- 7. In accordance with 15.35(b), above 1 GHz, emissions measured using a peak detector shall not exceed a level 20 dB above the average limit.
- 8. Measurements at 2400 & 2483.5 MHz were made to ensure band edge compliance.
- 9. Testing was performed with the EUT orientated in three orthogonal planes and the maximum emissions level recorded. In addition, the EUT antenna was varied within its range of motion in order to maximise emissions.
- 10. For Frequencies below 1 GHz, RBW= 100 kHz, testing was performed with CISPR16 compliant test receiver with QP detector. Above 1 GHz tests were performed using a spectrum analyser using the following settings:

Peak RBW=VBW= 1MHz Average RBW=VBW= 1MHz

These settings as per ANSI C63.10

#### 9.1.4 Test Result

Temperature ( $^{\circ}\!$	EUT: Accent 1400
Humidity (%RH ): 50~54	M/N: ACN1400
Barometric Pressure ( mbar ): 950~1000	Operation Condition: Normal operation & TX Mode

Note: In this testing, the EUT was respectively tested in three different orientations. That is:

- 1. EUT was lie vertically, and then its Antenna oriented upward
- 2. EUT was lie vertically, and then its Antenna oriented downward
- 3. EUT was lie flatwise, and then its Antenna oriented to the receiving antenna

The worst test data see following pages

When the EUT was lie flatwise, and its Antenna oriented to the receiving antenna, the worst test data was got as following table.

# **WORST-CASE RADIATED EMISSION BELOW 30 MHz**

Tx operating Mode:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dB μ V/M)	(dB)	PK/QP
5.46	21.54	8.23	1.03	28.74	67	-38.26	QP
14.89	21.25	9.07	1.19	29.13	49.5	-20.37	QP
22.32	22.57	9.25	1.08	30.74	49.5	-18.76	QP
23.45	22.67	8.43	1.66	29.44	49.5	-20.06	QP

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#### Spurious Emission Data LE Mode Below 1GHz Channel Low:

EUT: Accent 1400 M/N: ACN1400 Operating Condition: TX Mode

Test Site: 3m CHAMBER

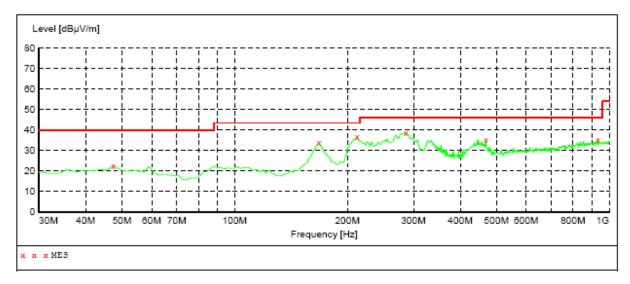
Operator: Chen

Test Specification: DC 7.4V from battery Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

NEEP TABLE.
Short Description: Field Strength Detector Meas. IF Start Transducer Stop Frequency Frequency Time Bandw.

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	22.60	15.8	40.0	17.4	QP	100.0	0.00	HORIZONTAL
167.740000	33.70	13.0	43.5	9.8	QP	100.0	0.00	HORIZONTAL
212.360000	36.60	15.1	43.5	6.9	QP	100.0	0.00	HORIZONTAL
286.080000	38.70	18.3	46.0	7.3	QP	100.0	0.00	HORIZONTAL
468.440000	35.10	22.6	46.0	10.9	QP	100.0	0.00	HORIZONTAL
932.100000	35.60	29.4	46.0	10.4	QP	100.0	0.00	HORIZONTAL

#### Spurious Emission Data LE Mode Below 1GHz Channel Low:

EUT: Accent 1400 M/N: ACN1400 Operating Condition: TX Mode

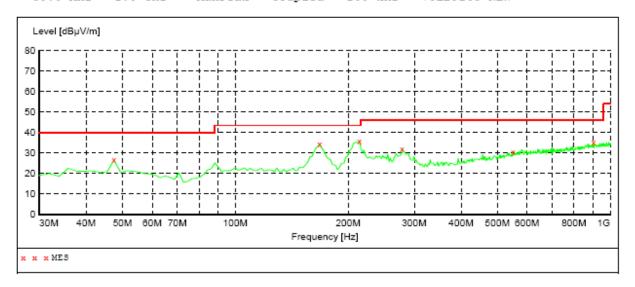
Test Site: 3m CHAMBER

Operator: Chen

Test Specification: DC 7.4V from battery Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

WEEP TABLE.
Short Description: Field Strength Detector Meas. IF Time Bandw. Transducer Start Stop Frequency Frequency 30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	26.60	15.8	40.0	13.4	QP	100.0	0.00	VERTICAL
167.740000	34.60	13.0	43.5	8.9	QΡ	100.0	0.00	VERTICAL
214.300000	35.80	15.2	43.5	7.7	QP	100.0	0.00	VERTICAL
278.320000	31.90	18.1	46.0	14.1	QP	100.0	0.00	VERTICAL
549.920000	30.70	25.0	46.0	15.3	QP	100.0	0.00	VERTICAL
901.060000	35.50	29.2	46.0	10.5	QP	100.0	0.00	VERTICAL

# Spurious Emission Data LE Mode Below 1GHz Channel Middle:

EUT: Accent 1400 M/N: ACN1400 Operating Condition: TX Mode

Test Site: 3m CHAMBER

Operator: Chen

Test Specification: DC 7.4V from battery Comment: Polarization: Horizontal

#### SWEEP TABLE: "test (30M-1G)"

WEEP TABLE.

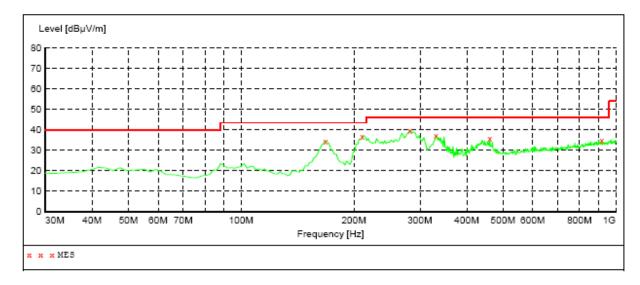
Short Description: Field Strength.

Start Stop Detector Meas. IF

Framework Time Bandw.

Transducer

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
167.740000	34.50	13.0	43.5	9.0	QP	100.0	0.00	HORIZONTAL
210.420000	36.90	15.1	43.5	6.6	QP	100.0	0.00	HORIZONTAL
282.200000	39.80	18.2	46.0	6.2	QP	100.0	0.00	HORIZONTAL
330.700000	37.10	19.7	46.0	8.9	QP	100.0	0.00	HORIZONTAL
460.680000	35.90	22.3	46.0	10.1	QP	100.0	0.00	HORIZONTAL
916.580000	34.80	29.3	46.0	11.2	QP	100.0	0.00	HORIZONTAL

#### Spurious Emission Data LE Mode Below 1GHz Channel Middle:

EUT: Accent 1400 M/N: ACN1400 Operating Condition: TX Mode

Test Site: 3m CHAMBER

Operator: Chen

Test Specification: DC 7.4V from battery Comment: Polarization: Vertical

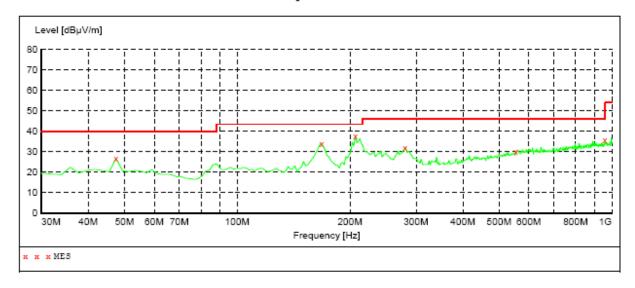
#### SWEEP TABLE: "test (30M-1G)"

WEEP TABLE.
Short Description: Field Strength Start

IF Stop Detector Meas. Transducer

Frequency Frequency Bandw. Time

Coupled 100 kHz VULB9163 NEW 30.0 MHz 1.0 GHz MaxPeak



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	26.70	15.8	40.0	13.3	QP	100.0	0.00	VERTICAL
167.740000	34.10	13.0	43.5	9.4	QP	100.0	0.00	VERTICAL
206.540000	37.60	15.0	43.5	5.9	QP	100.0	0.00	VERTICAL
280.260000	32.10	18.2	46.0	13.9	QP	100.0	0.00	VERTICAL
553.800000	30.00	25.1	46.0	16.0	QP	100.0	0.00	VERTICAL
957.320000	35.70	29.6	46.0	10.3	QP	100.0	0.00	VERTICAL

# Spurious Emission Data LE Mode Below 1GHz Channel High:

EUT: Accent 1400 M/N: ACN1400 Operating Condition: TX Mode

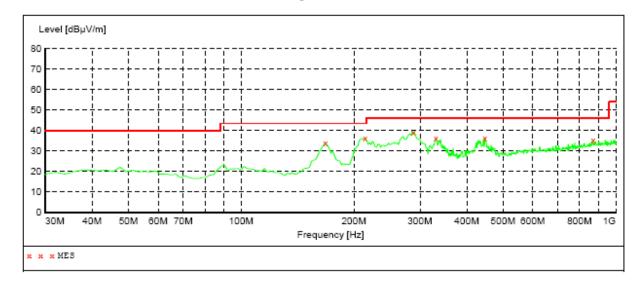
Test Site: 3m CHAMBER

Operator: Chen

Test Specification: DC 7.4V from battery Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi
Start Stop Detector Field Strength Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw. 30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
167.740000	34.10	13.0	43.5	9.4	QP	100.0	0.00	HORIZONTAL
214.300000	36.20	15.2	43.5	7.3	QP	100.0	0.00	HORIZONTAL
288.020000	39.30	18.4	46.0	6.7	QP	100.0	0.00	HORIZONTAL
330.700000	36.50	19.7	46.0	9.5	QP	100.0	0.00	HORIZONTAL
447.100000	36.50	22.1	46.0	9.5	QP	100.0	0.00	HORIZONTAL
870.020000	35.50	28.9	46.0	10.5	QP	100.0	0.00	HORIZONTAL

# Spurious Emission Data LE Mode Below 1GHz Channel High:

EUT: Accent 1400 M/N: ACN1400 Operating Condition: TX Mode

Test Site: 3m CHAMBER

Operator: Chen

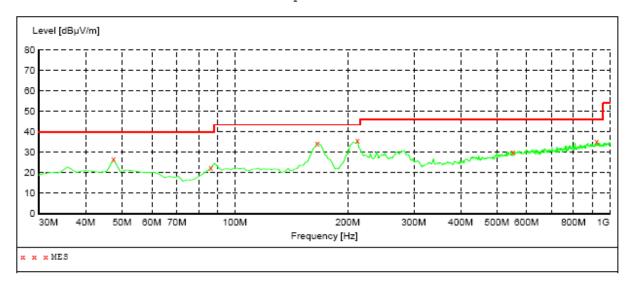
Test Specification: DC 7.4V from battery Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi Field Strength

Detector Meas. IF Start Stop Transducer

Frequency Frequency Time Bandw.

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	26.60	15.8	40.0	13.4	QP	100.0	0.00	VERTICAL
86.260000	22.50	14.8	40.0	17.5	QP	100.0	0.00	VERTICAL
165.800000	34.60	13.0	43.5	8.9	QP	100.0	0.00	VERTICAL
212.360000	35.70	15.1	43.5	7.8	QP	100.0	0.00	VERTICAL
551.860000	30.30	25.0	46.0	15.7	QP	100.0	0.00	VERTICAL
922.400000	35.10	29.4	46.0	10.9	OP	100.0	0.00	VERTICAL

#### **RADIATED EMISSION ABOVE 1 GHz**

	Channel Low (2402MHz)											
Maximum Frequency		Polar		Limit	Margin	Mark						
(MHz)	Polarity	Height (m)	Reading dBµV	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	(P/Q/A)				
2402	Н	1	99.85	-7.15	92.7	N/A	N/A	Р				
2402	П	I	90.7	-7.15	83.55	N/A	N/A	Α				
2402	V	1	103.52	-7.15	96.37	N/A	N/A	Р				
2402	V	I	94.68	-7.15	87.53	N/A	N/A	Α				
4804	Н	1	40.25	1.07	41.32	74	-32.68	Р				
4004	11	'	31.89	1.07	32.96	54	-21.04	Α				
4804	V	1	42.76	1.07	43.83	74	-30.17	Р				
4004	V	V I	32.34	1.07	33.41	54	-20.59	Α				
7206	ш	206 H	1	40.59	7.38	47.97	74	-26.03	Р			
7200	11	ı	30.69	7.38	38.07	54	-15.93	Α				
7206	s V	1	43.36	7.38	50.74	74	-23.26	Р				
7200	V	I	31.21	7.38	38.59	54	-15.41	Α				
9611.37	Н	1	41.38	10.29	51.67	74	-22.33	Р				
9611.37	П	I	30.54	10.29	40.83	54	-13.17	Α				
0614.27	V	1	42.39	7.38	49.77	74	-24.23	Р				
9611.37	V	l	31.18	7.38	38.56	54	-15.44	Α				
12022.00	Н	4	41.36	14.01	55.37	74	-18.63	Р				
12022.89	П	1	31.05	14.01	45.06	54	-8.94	Α				
12022 22	V	4	42.74	14.01	56.75	74	-17.25	Р				
12023.33	V	1	31.23	14.01	45.24	54	-8.76	Α				
25220.89												

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier Margin = Level-Limit

- Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value
  2. Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
  - 4. The test limit distance is 3m limit

	Channel Middle (2440MHz)										
Maximum Frequency		Polar	ity and Level			Limit	Margin	Mark			
(MHz)	Polarity	Height (m)	Reading dBµV	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	(P/Q/A)			
2440	Н	1	98.79	-6.37	92.42	N/A	N/A	Р			
2440	''	ı	90.56	-6.37	84.19	N/A	N/A	Α			
2440	V	1	104.33	-6.37	97.96	N/A	N/A	Р			
2440	V	ı	95.79	-6.37	89.42	N/A	N/A	Α			
4880	Н	1	40.32	1.07	41.39	74	-32.61	Р			
4000	11	ı	30.25	1.07	31.32	54	-22.68	Α			
4880	V	1	42.81	1.07	43.88	74	-30.12	Р			
4000	V	'	31.25	1.07	32.32	54	-21.68	Α			
7320	Н	1	40.84	7.49	48.33	74	-25.67	Р			
7320	11	ı.	30.23	7.49	37.72	54	-16.28	Α			
7320	V	1	42.36	7.49	49.85	74	-24.15	Р			
7320	V	ı	31.82	7.49	39.31	54	-14.69	Α			
9760	Н	1	41.25	10.47	51.72	74	-22.28	Р			
9700	11	ı	30.89	10.47	41.36	54	-12.64	Α			
9760	V	1	43.52	10.47	53.99	74	-20.01	Р			
9700	V	ı	32.33	10.47	42.8	54	-11.2	Α			
12168.22	Н	1	41.85	14.1	55.95	74	-18.05	Р			
12100.22	11	'	30.24	14.1	44.34	54	-9.66	Α			
12168.22	V	1	42.58	14.1	56.68	74	-17.32	Р			
12100.22	V	'	30.86	14.1	44.96	54	-9.04	Α			
25380.37											

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

2. Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.

4. The test limit distance is 3m limit

	Channel High (2480MHz)											
Maximum Frequency		Polar	ity and Level			Limit	Margin	Mark				
(MHz)	Polarity	Height (m)	Reading dBµV	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	(P/Q/A)				
2480	Н	1	99.35	-6.05	93.3	N/A	N/A	Р				
2400	· · · · · ·	ı	91.38	-6.05	85.33	N/A	N/A	Α				
2480	V	1	104.59	-6.05	98.54	N/A	N/A	Р				
2400	v	'	94.36	-6.05	88.31	N/A	N/A	Α				
4960	Н	1	40.58	1.07	41.65	74	-32.35	Р				
4300	- 11	'	31.02	1.07	32.09	54	-21.91	Α				
4960	V	1	42.35	1.07	43.42	74	-30.58	Р				
4900	V	'	32.33	1.07	33.4	54	-20.6	Α				
7440	ш	7440 H	1	40.89	7.61	48.5	74	-25.5	Р			
7 440	11	ı	31.36	7.61	38.97	54	-15.03	Α				
7440	V	1	42.59	7.61	50.2	74	-23.8	Р				
7440	<b>,</b>	'	32.33	7.61	39.94	54	-14.06	Α				
9920	Н	1	40.89	10.65	51.54	74	-22.46	Р				
3320		'	31.34	10.65	41.99	54	-12.01	Α				
9920	V	1	43.25	10.65	53.9	74	-20.1	Р				
3320	V	ı	32.59	10.65	43.24	54	-10.76	Α				
12362.56	Н	1	41.68	14.19	55.87	74	-18.13	Р				
12302.30	11	'	31.74	14.19	45.93	54	-8.07	Α				
12362.56	V	1	42.25	14.19	56.44	74	-17.56	Р				
12002.00	V	'	32.18	14.19	46.37	54	-7.63	Α				
25380.89												

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
  - 4. The test limit distance is 3m limit

# 10.Test of Band Edges Emission

#### 10.1 Applicable Standard

Section 15.247(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. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

#### 10.2 EUT Setup

#### **Radiated Measurement Setup**

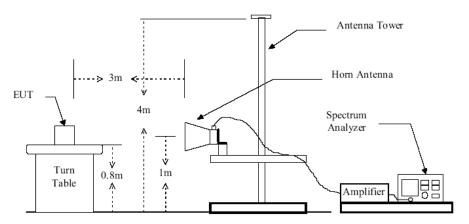
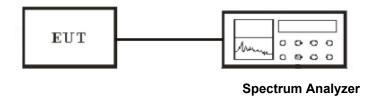


Figure 2: Frequencies measured above 1 GHz configuration

#### **Conducted Measurement Setup**



#### 10.3 Test Equipment List and Details

See section 2.5.

#### 10.4 Test Procedure

#### **Conducted Measurement**

1. The transmitter is set to the lowest channel.

- 2. The transmitter output was connected to the spectrum analyzer via a cable and cable loss is used as the offset of the spectrum analyzer.
- 3. Set both RBW and VBW of spectrum analyzer to 100KHz with convenient frequency span including 100MHz bandwidth from lower band edge. Then detector set to peak and max hold this trace.
- 4. The lowest band edges emission was measured and recorded.
- 5. The transmitter set to the highest channel and repeated 2~4.

#### **Radiated Measurement**

- 1. Configure the EUT according to ANSI C63.4-2009
- 2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
- 4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. For band edge emission, use 1MHz VBW and 1MHz RBW for reading under AV and use 1MHz VBW and 1MHz RBW for reading under PK.

#### 10.5 Test Result

Temperature ( $^{\circ}$ ) : 22~23	EUT: Accent 1400
Humidity (%RH ): 50~54	M/N: ACN1400
Barometric Pressure ( mbar ): 950~1000	Operation Condition: Tx Mode

#### **Radiated Test Result**

#### **TEACN1400 RESULT**

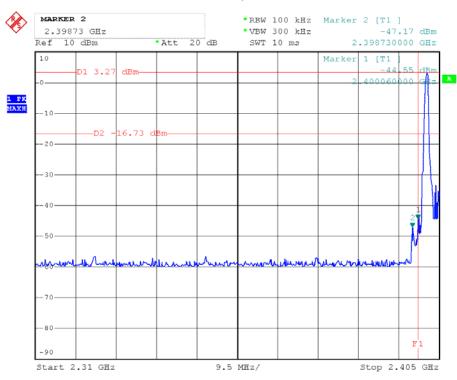
#### LE mode

Channel	Freq.(MHz)	Polarity	Level(dBuV/m)	Limit(dBuV)	Margin(dB)	Detector
	2390	Н	41.36	74	-32.64	Peak
LOW	2390	Н	32.25	54	-21.75	Average
	2390	V	43.25	74	-30.75	Peak
	2390	V	33.33	54	-20.67	Average
HIGH	2483.62	Н	42.35	74	-31.65	Peak
	2483.62	Н	32.59	54	-21.41	Average
	2483.62	V	43.79	74	-30.21	Peak
	2483.62	V	33.15	54	-20.85	Average

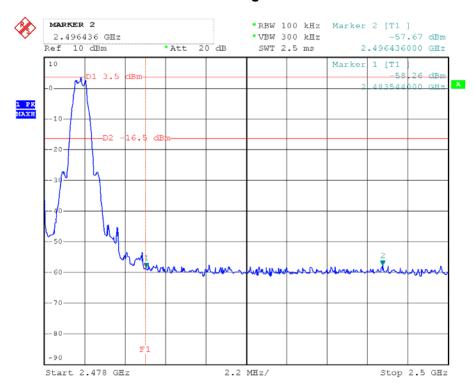
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# Test of Conducted band edges

#### **CH Low**



#### **CH High**



#### 11. ANTENNA REQUIREMENT

#### 11.1 Standard Applicable

Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Section 15.247(b)/(c):

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If the intentional radiator is used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the 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.

#### 11.2 Antenna Connected Construction

The antenna is designed with permanent attachment and no consideration of replacement. The antenna used in this product is complied with Standard. The maximum Gain of the antenna lower than 6.0dBi and have the definite antenna Specification.

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