

Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 1 of 34

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Mobile PC

FLYTECH Brand Name:

Model No.: P265(D31L)

Model Difference: N/A

XHM-P265L31 FCC ID:

E2/2015/80080 Report No.:

Aug. 24, 2015 Issue Date:

FCC Rule Part: §15.225

FLYTECH TECHNOLOGY CO., LTD.

No. 168, Sing-ai Rd., Neihu District, Taipei City **Prepared for:**

11494, Taiwan, R.O.C.

SGS Taiwan Ltd.

Electronics & Communication Laboratory

Prepared by: No.2, Keji 1st Rd., Guishan District, Taoyuan

City, Taiwan 333





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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 2 of 34

VERIFICATION OF COMPLIANCE

FLYTECH TECHNOLOGY CO., LTD. Applicant:

No. 168, Sing-ai Rd., Neihu District, Taipei City 11494, Taiwan,

Product Name: Mobile PC

Brand Name: FLYTECH

Model No.: P265(D31L)

Model Difference: N/A

FCC ID: XHM-P265L31

File Number: E2/2015/80080

Date of test: Apr. 24, 2015 ~ Aug. 18, 2015

Date of EUT Received: Apr. 24, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Aug. 24, 2015

Jazz Huang / Asst. Supervisor

Prepared By:

Test By:

Date:

Aug. 24, 2015

Tiffany Kao / Clerk

Approved By

Date:

Aug. 24, 2015

Jim Chang / Asst. Manager

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 3 of 34

Revision History

Report Number	Revision	Description	Issue Date
E2/2015/80080	Rev.00	Initial creation of document	Aug. 24, 2015

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 4 of 34

Table of Contents

1	GE	ENERAL INFORMATION	6
	1.1	PRODUCT DESCRIPTION	6
	1.2	TEST METHODOLOGY OF APPLIED STANDARDS	7
	1.3	TEST FACILITY	7
	1.4	SPECIAL ACCESSORIES	
	1.5	EQUIPMENT MODIFICATIONS	7
2	SY	STEM TEST CONFIGURATION	8
	2.1	EUT CONFIGURATION	8
	2.2	EUT Exercise	8
	2.3	Test Procedure	8
	2.4	MEASUREMENT RESULTS EXPLANATION EXAMPLE	8
	2.5	CONFIGURATION OF TESTED SYSTEM	
3	SL	JMMARY OF TEST RESULTS	10
4	DE	ESCRIPTION OF TEST MODES	11
	4.1	THE WORST TEST MODES AND CHANNEL DETAILS	11
5	ME	EASUREMENT UNCERTAINTY	12
6	CC	ONDUCTED EMISSION TEST	13
	6.1	STANDARD APPLICABLE:	13
	6.2	MEASUREMENT EQUIPMENT USED:	13
	6.3	EUT SETUP:	13
	6.4	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
	6.5	MEASUREMENT PROCEDURE:	
	6.6	MEASUREMENT RESULT:	
7	R/	ADIATED TEST ITEMS	17
	7.1	MEASUREMENT PROCEDURE	17
	7.2	TEST SET-UP	17
	7.3	MEASUREMENT EQUIPMENT USED	18
	7.4	FIELD STRENGTH CALCULATION	18
	7.5	FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK MEASUREMENT	
	7.6	RADIATED EMISSION MEASUREMENT	24
8	FR	REQUENCY STABILITY	29
	8.1	STANDARD APPLICABLE	
	8.2	MEASUREMENT PROCEDURE	_
	8.3	TEST SET-UP	
	84	MEASUREMENT FOUIPMENT USED	30

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 5 of 34

8.5	MEASUREMENT RESULTS	30
9 2	20 DB OCCUPIED BANDWIDTH MEASUREMENT	32
9.1	STANDARD APPLICABLE:	32
9.2	LIMIT:	32
9.3	TEST SET-UP	32
9.4	MEASUREMENT PROCEDURE	32
9.5	MEASUREMENT EQUIPMENT USED	32
9.6	20DB BANDWIDTH MEASUREMENT RESULT	33
10 A	ANTENNA REQUIREMENT	34
10.1.	. STANDARD APPLICABLE	34
10.2	ANTENNA CONNECTED CONSTRUCTION	34

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 6 of 34

GENERAL INFORMATION

1.1 Product Description

General:

Jeneral.			
Product Name:	Mobile PC		
Brand Name:	FLYTECH		
Model No.:	P265(D31L)		
Model difference:	N/A		
Hardware Version:	1.0		
Software Version:	019		
Cradle:	Model No.: N/A, Supplier: N/A		
	3.7Vdc from Rechargeable Li-ion Battery or 5V by AC/DC Power Adapter		
Power Supply: Battery: Model No.: BA800000, Supplier: SIMPLO TECHN		Model No.: BA800000, Supplier: SIMPLO TECHNOLOGY CO LTD	
	Adapter: Model No.: DSA-12PFA-05 FUS, Supplie		

NFC:

11 0.		
Operating Frequency:	13.56MHz	
Transmit Power:	< 123.90dBuV/m at 3m.	
Number of Channels:	1	
Antenna Type:	Loop Antenna	
Modulation Type:	ASK, BPSK	

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Page: 7 of 34

Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.225

ANSI C63.10:2013

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

The composite system (digital device) is compliance with FCC Subpart B is authorized under the DoC procedure.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333. (TAF code 0513)

FCC Registration Numbers are: 628985 Canada Registration Number: 4620A-5.

1.4 Special Accessories

There is no special accessory used while test was conducted.

Equipment Modifications 1.5

There was no modification incorporated into the EUT.

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 8 of 34

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 which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table 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 max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping" the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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Page: 9 of 34

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-2 AC Power Line Conducted Emission



Table 2-1 Equipment Used in Tested System

Ite m	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	NFC Test Software	N/A	N/A	N/A	N/A	N/A

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 10 of 34

SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
\$45.207	AC Power Line Conducted	Compliant
§15.207	Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits,	O a mandia mt
	general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049	ملالم المالية	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 11 of 34

DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT stay in continuous transmitting mode.
- 2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION			
NFC	1	1	ASK			
	FREQUENCY STABILITY					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION			
NFC	1	1	ASK			
20dB BANDWIDTH						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION			
NFC	1	1	ASK			

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for NFC Transmitter for channel the worst case H position was reported.

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 12 of 34

MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Frequency Stability	+/- 51.33 Hz
20 dB OCCUPIED BANDWIDTH	+/- 51.33 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB		
	180MHz -417MHz: +/- 3.19dB		
	0.417GHz-1GHz: +/- 3.19dB		

	30MHz - 167MHz: +/- 4.22dB		
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB		
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB		

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

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 13 of 34

CONDUCTED EMISSION TEST

6.1 Standard Applicable:

According to §15.207, frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

3.0 0.0				
Frequency range	Limits dB(uV)			
MHz	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Note

6.2 Measurement Equipment Used:

	Conducted Emission Test Site									
EQUIPMENT MFR		MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2014	12/11/2015					
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	01/06/2015	01/07/2016					
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016					
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016					
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.					

6.3 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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^{1.} The lower limit shall apply at the transition frequencies

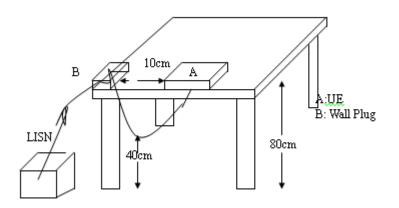
^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 14 of 34

6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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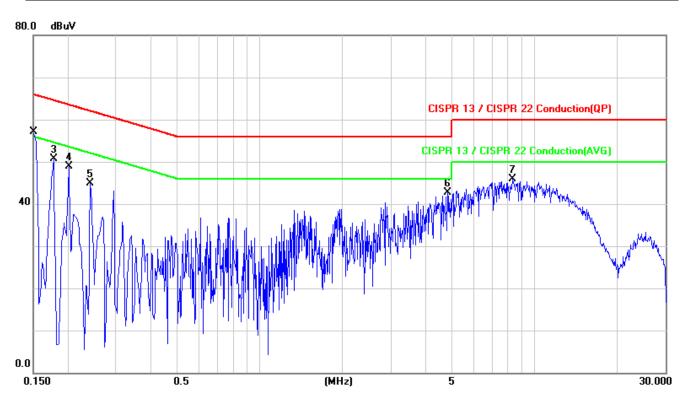


Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 15 of 34

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Aug. 04, 2015	
Temperature:	25	25 Humidity: 53 %			Jazz
				Phase:	L1



No.	Mk.¢	Freq.€	Reading₽	Factor₽	Measurement ²	Limit₽	Over₽	Detector€	Comment€
47	¢	(MHz)√	dBuV₽	(dB)₄□	(dBuV)₽	(dBuV)₽	(dB)₽	4	₽
1⇔	¢	0.1500₽	47.81₽	0.08₽	47.89₽	66.00₽	-18.11₽	QP₽	₽
2∻	٠	0.1500₽	26.21₽	0.08₽	26.29₽	56.00₽	-29.71₽	AVG₽	₽
3₽	÷	0.1780₽	50.62₽	0.08₽	50.70₽	64.58₽	-13.88₽	peak∉	₽
4₽	٦	0.2020₽	48.83₽	0.07₽	48.90₽	63.53₽	-14.63₽	peak₽	₽
5₽	÷,	0.2420₽	44.78₽	0.09₽	44.87₽	62.03₽	-17.16₽	peak₽	₽
6₽	**	4.8300₽	42.06₽	0.62₽	42.68₽	56.00₽	-13.32₽	peak₽	₽
7₽	ته	8.3300₽	45.19₽	0.68₽	45.87₽	60.00₽	-14.13₽	peak₽	₽

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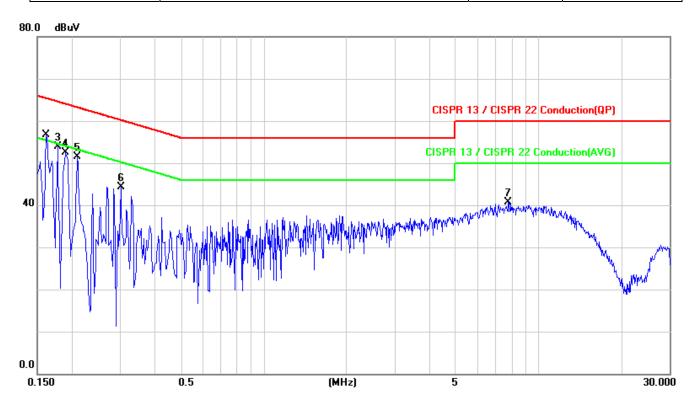
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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 16 of 34

Operation Mode:	Operation mode		Test Date:	Aug. 04, 2015	
Temperature:	25	Humidity:	Test By:	Jazz	
				Phase:	N



No.₽	Mk.₽	Freq.₽	Reading€	Factor₽	Measurement₽	Limit₽	Over₽	Detector€	Comment ₽
42	÷2	(MHz)4 [□]	dBuV₽	(dB)₽	(dBuV)₽	(dBuV)₽	(dB)₽	4	₽
1₽	٦	0.1620₽	46.80₽	0.14₽	46.94₽	65.36₽	-18.42₽	QP₽	₽
2₽	٦	0.1620₽	26.90₽	0.14₽	27.04₽	55.36₽	-28.32₽	AVG₽	₽
3₽	**	0.1780₽	53.80₽	0.14₽	53.94₽	64.58₽	-10.64₽	peak₽	÷.
4₽	Ð	0.1900₽	52.37₽	0.13₽	52.50₽	64.04₽	-11.54₽	peak₽	÷.
5₽	٦	0.2100₽	51.41₽	0.13₽	51.54₽	63.21₽	-11.67₽	peak₽	¢
6₽	÷	0.3020₽	44.21₽	0.17₽	44.38₽	60.19₽	-15.81₽	peak₽	÷.
7₽	Ð	7.7860₽	39.99₽	0.73₽	40.72₽	60.00₽	-19.28₽	peak∉	₽

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 17 of 34

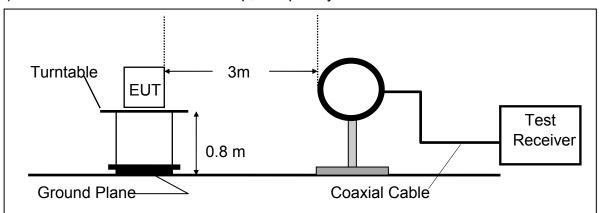
RADIATED TEST ITEMS

Measurement Procedure

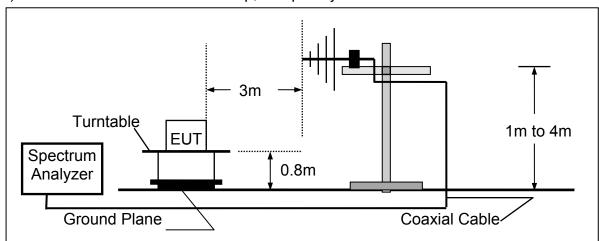
- Configure the EUT according to ANSI C63.4.
- The EUT was placed on a turn table which is 0.8m above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
- 5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7. Repeat above procedures until all default test channel measured were complete

7.2 Test SET-UP

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 18 of 34

7.3 Measurement Equipment Used

	966 Chamber								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
EMI Test Receiver	R&S	ESCI7	100760	2015/5/4	05/03/2016				
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016				
EXA Spectrum									
Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015				
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015				
Loop Antenna	ETS.LINDGREN	6502	00143303	12/9/2014	12/08/2015				
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2015	01/01/2016				
Turn Table	HD	DT420	N/A	N.C.R	N.C.R				
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R				
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R				
Low Loss Cable	Huber Suhner	966_Rx	9	01/02/2015	01/01/2016				
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016				

7.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	G	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m) Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. "E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 19 of 34

7.5 Field Strength of Fundamental Emissions and Mask Measurement

7.5.1 Standard Applicable

Limit:

Rules and specifiactions	CFR 47 P	art 15 section 15.	225(a)-(d)
Frequency of Emission (MHz)	Field Strength (μV/m)at 30m	Field Strength (dBµV/m)at 30m	Field Strength (dBµV/m)at 3m
1.705~13.110	30	29.5	69.5
13.110~13.410	106	40.5	80.5
13.410~13.553	334	50.5	90.47
13.553~13.567	15848	84	123.9
13.567~13.710	334	50.5	90.47
13.710~14.010	106	40.5	80.5
14.010~30.00	30	29.5	69.5

Note:

- Emission level in dBuV/m=20 log (μV/m)
- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. The lower limit shall apply at the transition frequencies.
- 4. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.

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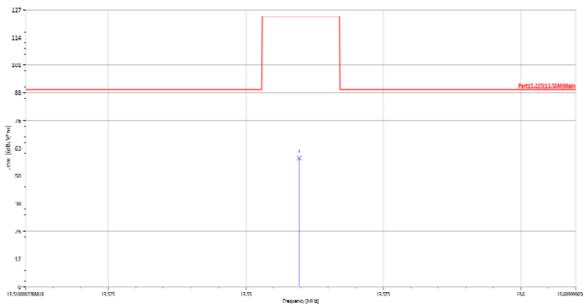
Page: 20 of 34

7.5.2 Field Strength of Fundamental Emission Measurement Result

Operation Band :NFC Test Date :2015-08-17

Fundamental Frequency :13.56 MHz Temp./Humi. :19.2 deg_C/58RH

Operation Mode :MAIN Engineer :Ashton EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Note	Spectrum	Factor	Actual	Limit	Margin
	Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	F/H/E/S	dΒμV	dB	dBμV/m	dBµV/m	dB
13.56	Peak	F	47.82	11.17	58.98	123.90	-64.92

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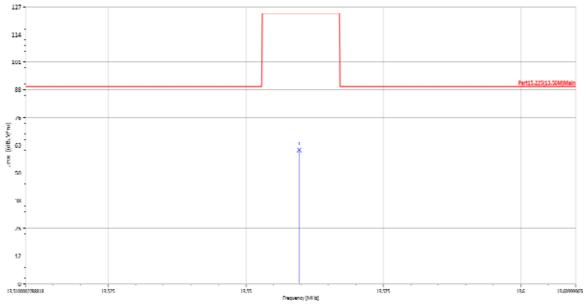
Page: 21 of 34

Operation Band :NFC **Test Date** :2015-08-17

Fundamental Frequency :13.56 MHz Temp./Humi. :19.2 deg_C/58RH

Operation Mode :MAIN Engineer :Ashton

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Note	Spectrum	Factor	Actual	Limit	Margin
	Mode		Reading Level		FS	@ 3m	
MHz	PK/QP/AV	F/H/E/S	dΒμV	dB	dBµV/m	dBµV/m	dB
13.56	Peak	F	50.13	11.17	61.30	123.90	-62.60

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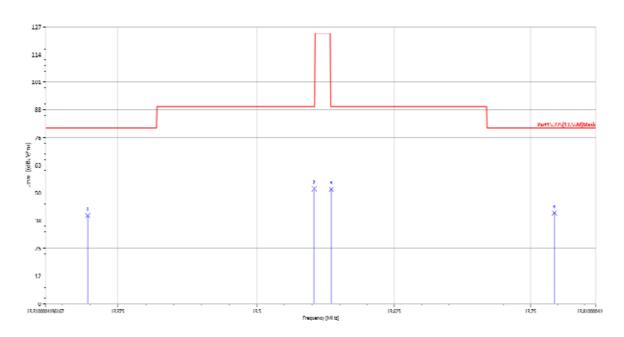
Page: 22 of 34

7.5.3 Mask Measurement Result

Operation Band :NFC **Test Date** :2015-08-17

Fundamental Frequency :13.56 MHz Temp./Humi. :19.2 deg_C/58RH

Operation Mode :MASK Engineer :Ashton EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Note	Spectrum	Factor	Actual	Limit	Margin
	Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	F/H/E/S	dΒμV	dB	dBμV/m	dBµV/m	dB
13.35	Peak	S	29.19	11.18	40.36	80.50	-40.14
13.55	Peak	S	41.57	11.17	52.74	90.47	-37.73
13.57	Peak	S	41.27	11.16	52.43	90.47	-38.04
13.77	Peak	S	30.49	11.15	41.64	80.50	-38.86

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

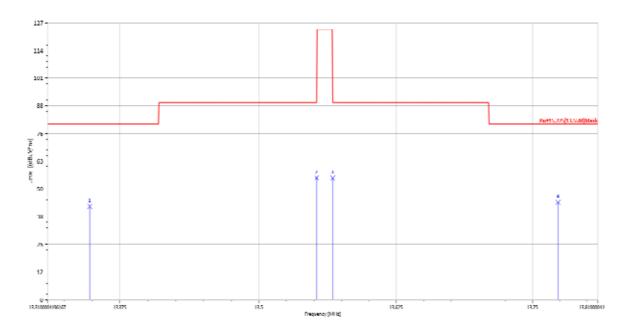
Page: 23 of 34

Operation Band :NFC **Test Date** :2015-08-17

Fundamental Frequency :13.56 MHz Temp./Humi. :19.2 deg_C/58RH

Operation Mode :MASK Engineer :Curry

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Note	Spectrum	Factor	Actual	Limit	Margin
	Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	F/H/E/S	dΒμV	dB	dBμV/m	dBµV/m	dB
13.35	Peak	S	31.61	11.18	42.78	80.50	-37.72
13.55	Peak	S	44.66	11.17	55.83	90.47	-34.64
13.57	Peak	S	44.54	11.16	55.70	123.90	-68.20
13.77	Peak	S	33.39	11.15	44.55	80.50	-35.95

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 24 of 34

Radiated Emission Measurement

7.6.1 Standard Applicable

The field strength of any emission which appear outside of 13.553~13.567MHz Band shall not exceed the general radiated emissions limits.

Frequency (MHz)	Field strength (μV/m)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- Emission level in dB_μV/m=20 log (μV/m)
- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. The lower limit shall apply at the transition frequencies.
- 4. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.

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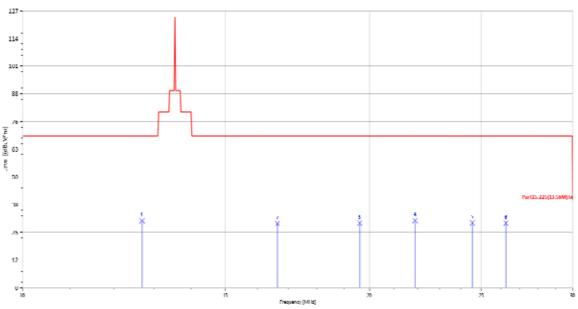
Page: 25 of 34

7.6.2 Radiated Emission Measurement Result

Operation Band :NFC **Test Date** :2015-08-17

Fundamental Frequency :13.56 MHz Temp./Humi. :19.2 deg_C/58RH

Operation Mode :TX Engineer :Ashton EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL



	Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBμV/m	dBµV/m	dB
_	IVII IZ	FIVQF/AV	1711/L/3	αυμν	ub_	ασμν/π	ασμν/π	<u> </u>
	12.70	Peak	S	19.49	11.19	30.68	69.54	-38.86
	16.64	Peak	S	18.27	11.07	29.34	69.54	-40.20
	19.62	Peak	S	18.62	10.97	29.59	69.54	-39.95
	21.90	Peak	S	20.16	10.61	30.77	69.54	-38.77
	24.56	Peak	S	19.57	10.13	29.71	69.54	-39.83
	26.26	Peak	S	19.75	9.81	29.56	69.54	-39.98
	12.70	Peak	S	19.49	11.19	30.68	69.54	-38.86

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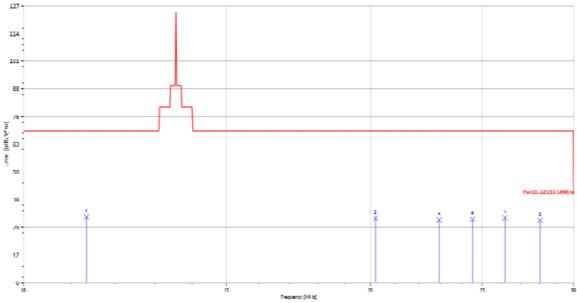
Page: 26 of 34

Operation Band :NFC **Test Date** :2015-08-17

Fundamental Frequency :13.56 MHz Temp./Humi. :19.2 deg_C/58RH

Operation Mode :TX Engineer :Ashton

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Note	Spectrum	Factor	Actual	Limit	Margin
		Mode		Reading Level		FS	@ 3m	
	MHz	PK/QP/AV	F/H/E/S	dΒμV	dB	dBμV/m	dBµV/m	dB
	11.34	Peak	S	18.91	11.24	30.14	69.54	-39.40
	20.20	Peak	S	18.62	10.91	29.53	69.54	-40.01
	22.94	Peak	S	18.37	10.41	28.78	69.54	-40.76
	24.52	Peak	S	18.90	10.14	29.04	69.54	-40.50
	26.16	Peak	S	19.88	9.83	29.70	69.54	-39.84
	28.06	Peak	S	19.18	9.45	28.63	69.54	-40.91
	11.34	Peak	S	18.91	11.24	30.14	69.54	-39.40

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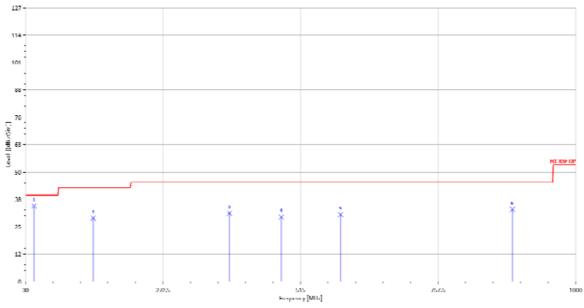
Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 27 of 34

Operation Band :NFC Test Date :2015-08-17

Fundamental Frequency :13.56 MHz Temp./Humi. :19.2 deg_C/58RH

Operation Mode :TX Engineer :Ashton :VERTICAL EUT Pol. :H Plan Measurement Antenna Pol.



Freq.	Detector	Note	Spectrum	Factor	Actual	Limit	Margin
	Mode		Reading Level		FS	@ 3m	
MHz	PK/QP/AV	F/H/E/S	dΒμV	dB	dBμV/m	dBµV/m	dB
45.52	Peak	S	57.73	-22.75	34.98	40.00	-5.02
149.31	Peak	S	51.97	-22.61	29.36	43.50	-14.14
389.87	Peak	S	47.88	-16.21	31.66	46.00	-14.34
481.05	Peak	S	44.06	-14.28	29.78	46.00	-16.22
585.81	Peak	S	43.39	-12.37	31.02	46.00	-14.98
888.45	Peak	S	41.84	-8.40	33.44	46.00	-12.56

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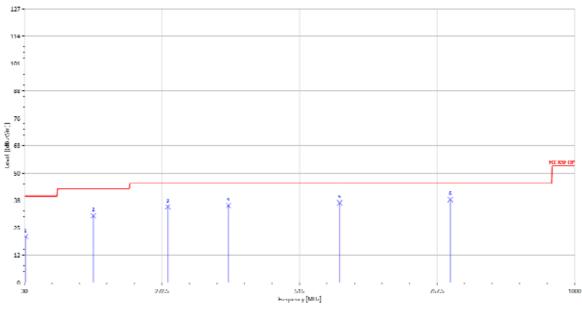
Page: 28 of 34

Operation Band :NFC **Test Date** :2015-08-17

Fundamental Frequency :13.56 MHz Temp./Humi. :19.2 deg_C/58RH

Operation Mode :TX Engineer :Ashton

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Note	Spectrum	Factor	Actual	Limit	Margin
	Mode		Reading Level		FS	@ 3m	
MHz	PK/QP/AV	F/H/E/S	dΒμV	dB	dBμV/m	dBµV/m	dB
31.94	Peak	S	35.37	-14.17	21.21	40.00	-18.79
151.25	Peak	S	53.62	-22.79	30.83	43.50	-12.67
283.17	Peak	S	54.67	-19.58	35.09	46.00	-10.91
389.87	Peak	S	51.83	-16.21	35.61	46.00	-10.39
585.81	Peak	S	49.22	-12.37	36.85	46.00	-9.15
780.78	Peak	S	48.67	-10.25	38.42	46.00	-7.58

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 29 of 34

8 FREQUENCY STABILITY

8.1 Standard Applicable

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

8.2 Measurement Procedure

- 1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
- 2. Set EUT as normal operation.
- 3. Turn the EUT on and couple its output to spectrum.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
- 6. Repeat step with the temperature chamber set to the lowest temperature.
- 7. Set spectrum Center Frequency = fundamental frequency, RBW, VBW= 10 kHz, Span =100 kHz, Detector =Max hold, Mark peak.

8.3 Test SET-UP

Antenna Spectrum analyzer EUT EUT

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 30 of 34

8.4 Measurement Equipment Used

Conducted Emission Test Site								
EQUIPMENT	MED	MODEL	SERIAL	LAST	CAL DUE			
TYPE	MFR	NUMBER	NUMBER	CAL.	CAL DUE.			
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016			
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016			
AC Power Supply	APW-105N	887592	All Power	N/A	N/A			

8.5 Measurement Results

Refer to attached data chart.

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 31 of 34

A. Temperature Variation

Power Supply	Environment	Frequency	Dolto (Uz)	Limit (KUz)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (KHz)
3.7	-20	13.5601	-100	+/- 1.356
3.7	-10	13.5603	-300	+/- 1.356
3.7	0	13.5601	-100	+/- 1.356
3.7	10	13.5601	-100	+/- 1.356
3.7	20	13.56	0	+/- 1.356
3.7	30	13.5598	200	+/- 1.356
3.7	40	13.5599	100	+/- 1.356
3.7	50	13.5597	300	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KUz)	
Vdc	Temperature ()	(MHz)	Della (112)	Limit (KHz)	
4.07	20	13.5601	-100.00	+/- 1.356	
3.7	20	0	0.00	+/- 1.356	
3.3	20	13.5602	-200.00	+/- 1.356	

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 32 of 34

20 dB OCCUPIED BANDWIDTH MEASUREMENT

9.1 Standard Applicable:

The 20 dB bandwidth shall be specified in operating frequency band.

9.2 Limit:

None

Test Set-up 9.3



Measurement Procedure

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.

Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL			CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016	

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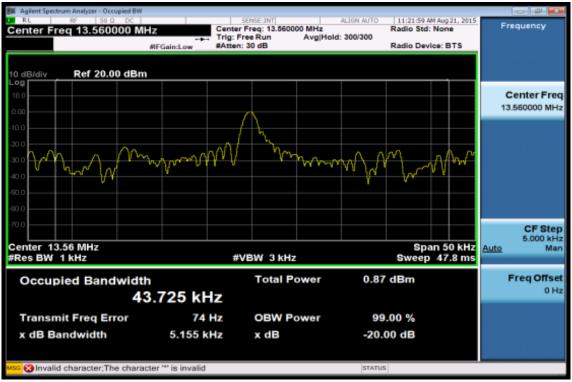
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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 33 of 34

20dB Bandwidth Measurement Result



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report No: E2/2015/80080 Issue Date: Aug. 24, 2015

Page: 34 of 34

10 ANTENNA REQUIREMENT

10.1. Standard Applicable

According to §15.203, Antenna requirement.

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer.

For transmitters of RF output power of 10 milliwatts or less, only the portion of the antenna gain that is in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power to demonstrate compliance with the radiated power limits specified in the applicable standard. For transmitters of output power greater than 10 milliwatts, the total antenna gain shall be added to the measured RF output power to demonstrate compliance to the specified radiated power limits.

10.2. Antenna Connected Construction

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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