

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Mobile PC
Brand Name: FLYTECH
Model No.: P263(D31L)
Model Difference: N/A
FCC ID: XHM-P263D31L
Report No.: E2/2017/70010
Issue Date: Jul. 25, 2017
FCC Rule §15.225
Prepared for: FLYTECH TECHNOLOGY CO., LTD.
No. 168, Sing-ai Rd., Neihu District, Taipei City
11494, Taiwan, R.O.C.
SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
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City, Taiwan 333



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VERIFICATION OF COMPLIANCE

FLYTECH TECHNOLOGY CO., LTD.

Applicant: No. 168, Sing-ai Rd., Neihu District, Taipei City 11494, Taiwan, R.O.C.

Product Name: Mobile PC

Brand Name: FLYTECH

Model No.: P263(D31L)

Model Difference: N/A

FCC ID: XHM-P263D31L

File Number: E2/2017/70010

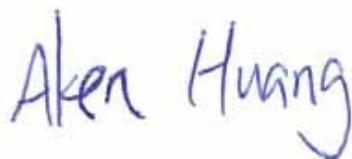
Date of test: Jul. 03, 2017 ~ Jul. 18, 2017

Date of EUT Received: Jul. 03, 2017

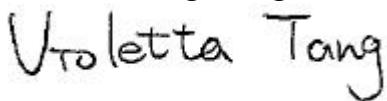
We hereby certify that:

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.

Test By:**Date:**

Jul. 25, 2017

Aken Huang / Engineer**Prepared By:****Date:**

Jul. 25, 2017

Violetta Tang / Clerk**Approved By:****Date:**

Jul. 25, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/70010	Rev.00	Initial creation of document	Jul. 25, 2017

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Contents

1	GENERAL INFORMATION	5
2	SYSTEM TEST CONFIGURATION	7
3	SUMMARY OF TEST RESULTS	9
4	DESCRIPTION OF TEST MODES.....	10
5	MEASUREMENT UNCERTAINTY.....	11
6	CONDUCTED EMISSION TEST.....	12
7	RADIATED TEST ITEMS.....	16
8	FREQUENCY STABILITY	29
9	20 DB OCCUPIED BANDWIDTH MEASUREMENT	34
10	ANTENNA REQUIREMENT	36

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Mobile PC
Brand Name:	FLYTECH
Model No.:	P263(D31L)
Model Difference:	N/A
Hardware Version:	N/A
Software Version	N/A
Power Supply:	3.7Vdc from Rechargeable Li-Polymer Battery or 5Vdc from AC/DC Adapter
	Battery: Mode No.: BA800000, Supplier: Getac TECHNOLOGY CORP.
	Adapter: Mode No.: DSA-12PFT-05 FEU 050200, Supplier: DVE

NFC:

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

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.225

ANSI C63.10:2013

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

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: 735305

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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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 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 placed on a turn table which is 0.8 m above ground plan. 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 §15.207. 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 placed on a turn table which is 0.8 m above ground plan. 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 one orthogonal axis 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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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & AC Power Line Conducted Emission

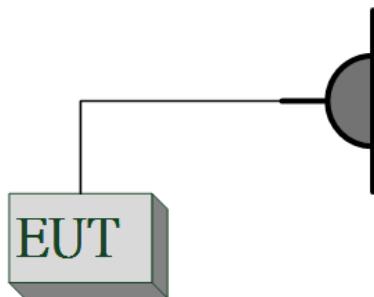


Fig. 2-1 Conducted Emission

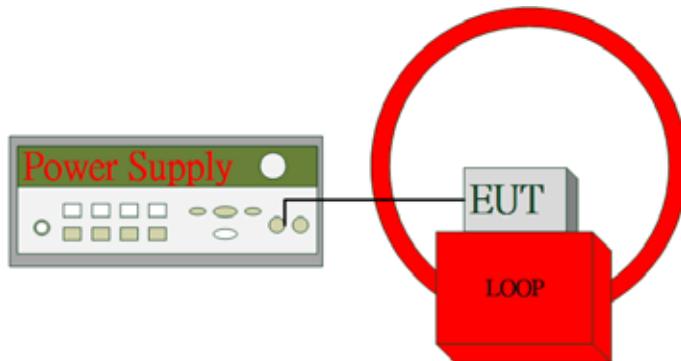


Table 2-1 Equipment Used in Tested System

Item	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
2.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Unshielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	20 dB OCCUPIED BANDWIDTH	Compliant
§15.203	Antenna Requirement	Compliant

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4 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; as for the wireless charging mode, the worst case H position was reported.

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5 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)	9kHz - 30MHz: +/- 2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB

Measurement uncertainty (Polarization : Horizontal)	9kHz - 30MHz: +/- 2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	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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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	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

- 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.

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2016	12/11/2017
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	08/30/2016	08/29/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	06/13/2017	06/12/2018
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.

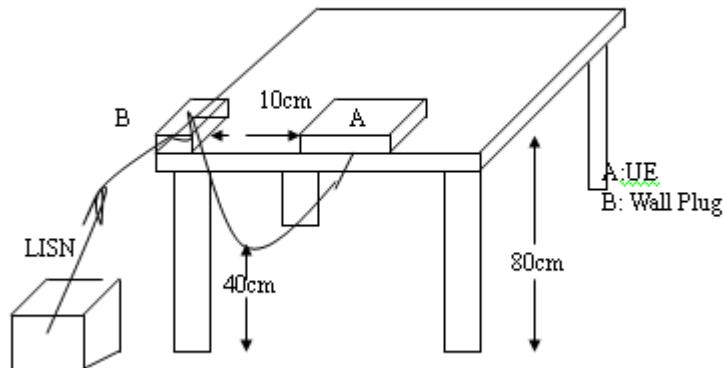
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

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

6.6 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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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Jul. 11, 2017
Temperature:	23	Humidity:	61 %	Test By:	Aken
				Phase:	L1

Site : Conduction Room Phase: **L1** Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

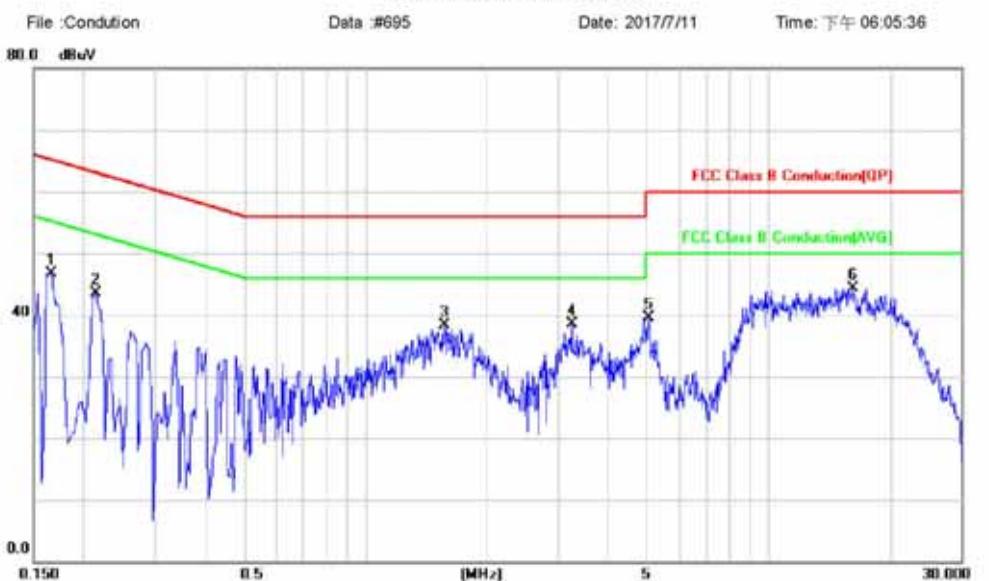
Power: AC 120V/60Hz

Humidity: 61 %

Mode:

Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Comment
			Level	Factor	ment			
1		0.1660	46.40	0.34	46.74	65.16	-18.42	peak
2		0.2140	43.22	0.33	43.55	63.05	-19.50	peak
3		1.5700	37.92	0.41	38.33	56.00	-17.67	peak
4		3.2540	37.98	0.53	38.51	56.00	-17.49	peak
5		5.0380	38.90	0.62	39.52	60.00	-20.48	peak
6	*	16.2060	43.41	0.95	44.36	60.00	-15.64	peak

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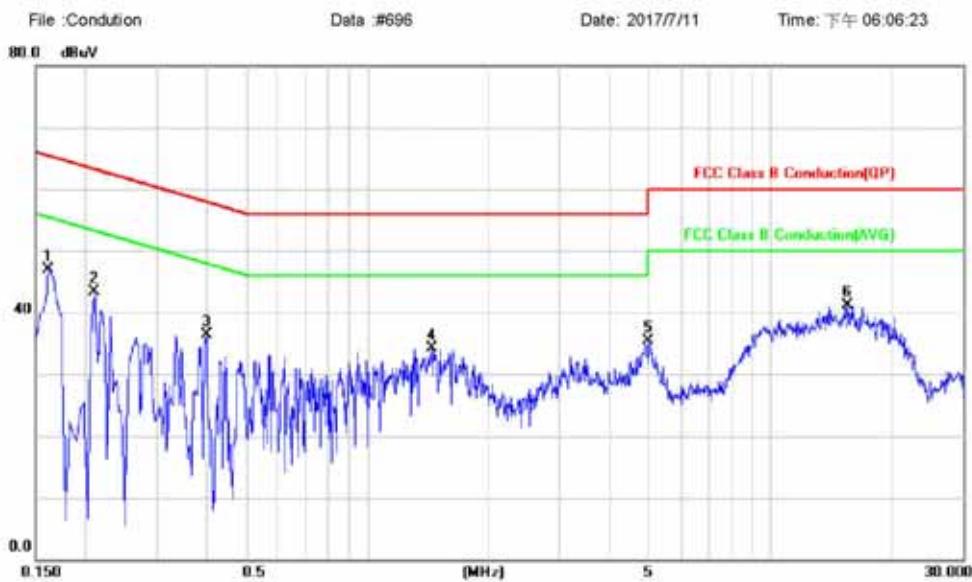
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Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode:
Note:

Phase: **N**
Power: AC 120V/60Hz

Temperature: 23 °C
Humidity: 61 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1	*	0.1620	46.46	0.42	46.88	65.36	-18.48	peak
2		0.2100	42.98	0.41	43.39	63.21	-19.82	peak
3		0.3980	35.97	0.42	36.39	57.90	-21.51	peak
4		1.4460	33.60	0.44	34.04	56.00	-21.96	peak
5		4.9860	34.78	0.49	35.27	56.00	-20.73	peak
6		15.4780	40.48	0.71	41.19	60.00	-18.81	peak

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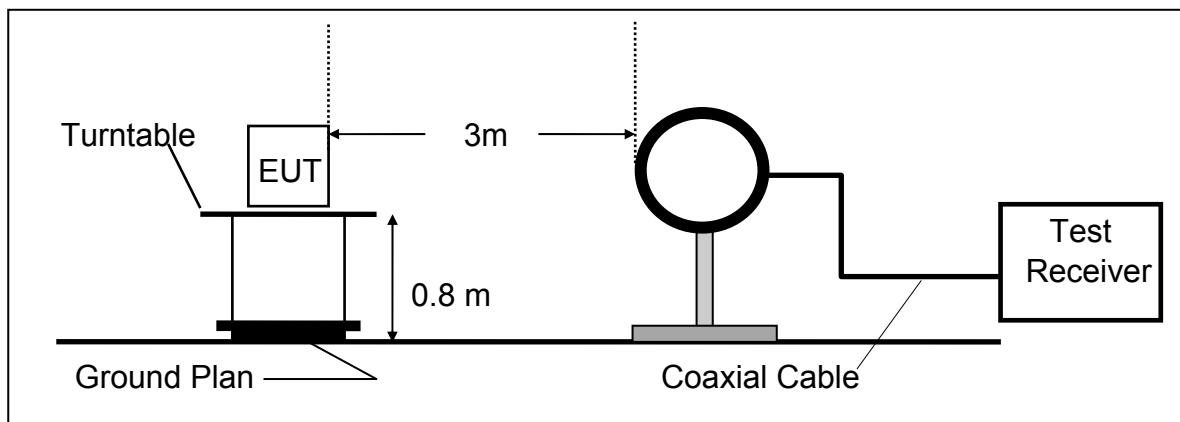
7 RADIATED TEST ITEMS

7.1 Measurement Procedure

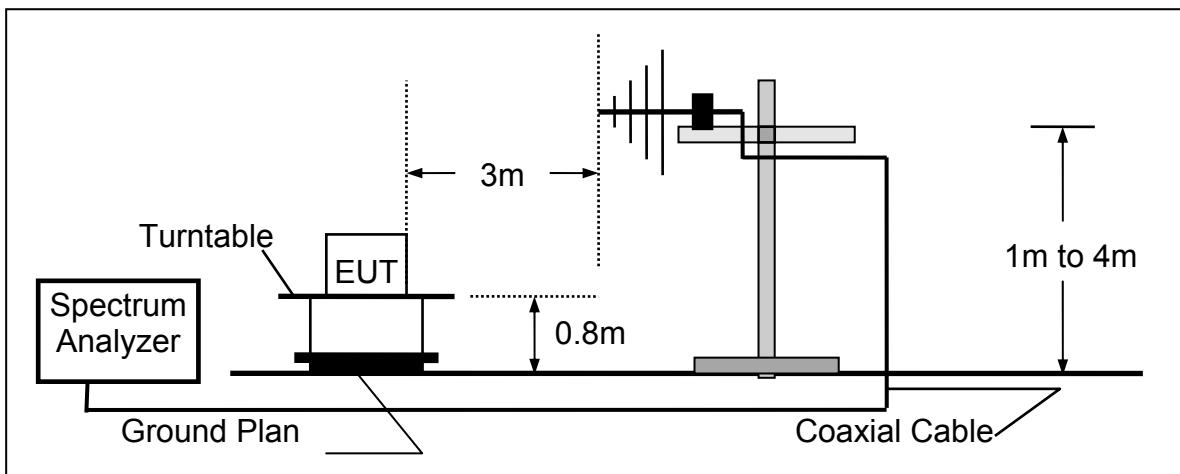
1. Configure the EUT according to ANSI C63.10.
2. The EUT was placed on a turn table which is 0.8m above ground plan.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out 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



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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7.3 Measurement Equipment Used

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

The limit of the emission level is expressed in dB μ V/m, which converts $20 * \log(\mu\text{V}/\text{m})$

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/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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7.5 Field Strength of Fundamental Emissions and Mask Measurement

7.5.1 Standard Applicable

Limit:

Rules and specifications	CFR 47 Part 15 section 15.225(a)-(d)		
Frequency of Emission (MHz)	Field Strength (μ V/m) at 30m	Field Strength (dB μ V/m) at 30m	Field Strength (dB μ V/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

Field strength of fundamental emissions limit:

The field strength of fundamental emissions shall not exceed 15848 micorvolts/meter at 30 meters. The Limit is converted to 124.00dB μ V/m by offsetting the distance extrapolation factor as measurement distance is taken place at 3 meters.

Distance extrapolation = $40 * \log (30/3) = 40$ dB

Limit is re-adjusted in terms of limit taken in 3m = $20 * \log (15848 \mu\text{V}/\text{m}) + 40 = 124.00\text{dB}\mu\text{V}/\text{m}$

1. Emission level in dB μ V/m=20 log (μ V/m)
2. Distance extrapolation factor = $40 \log (\text{required distance}/\text{test distance})$ (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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Radiated Mask

- (a) 15.848 millivolts/m (84 dB μ V/m) at 30 m, within the band 13.553-13.567 MHz.
- (b) 334 microvolts/m (50.5 dB μ V/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz.
- (c) 106 microvolts/m (40.5 dB μ V/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz.
- (d) RSS-Gen general field strength limits for frequencies outside the band 13.110-14.010 MHz.

Distance extrapolation = $40 * \log (30/3) = 40$ dB

Limit is re-adjusted in terms of limit taken in 3m for the following frequency segment of the interest:

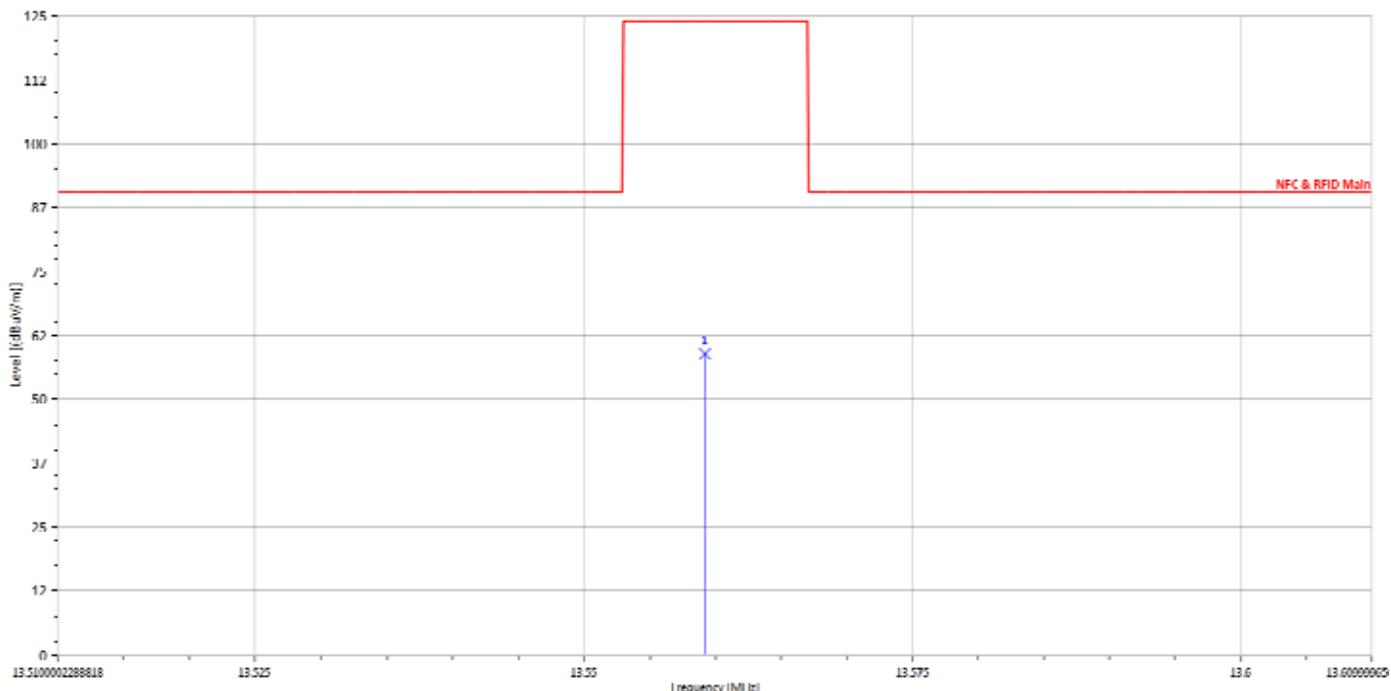
- a) $20 * \log (15848\mu\text{V}/\text{m}) + 40\text{dB} = 124.00\text{dBuV}/\text{m}$
- b) $20 * \log(334\mu\text{V}/\text{m}) + 40\text{dB} = 90.47\text{dBuV}/\text{m}$
- c) $20 * \log(106\mu\text{V}/\text{m}) + 40\text{dB} = 80.50\text{dBuV}/\text{m}$

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7.5.2 Field Strength of Fundamental Emission Measurement Result

Operation Mode : NFC Test Date : 2017/7/11
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Main CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μV	dB	dB μV/m	dB μV/m	dB
13.56	F	Peak	47.24	11.64	58.88	123.9	-65.02

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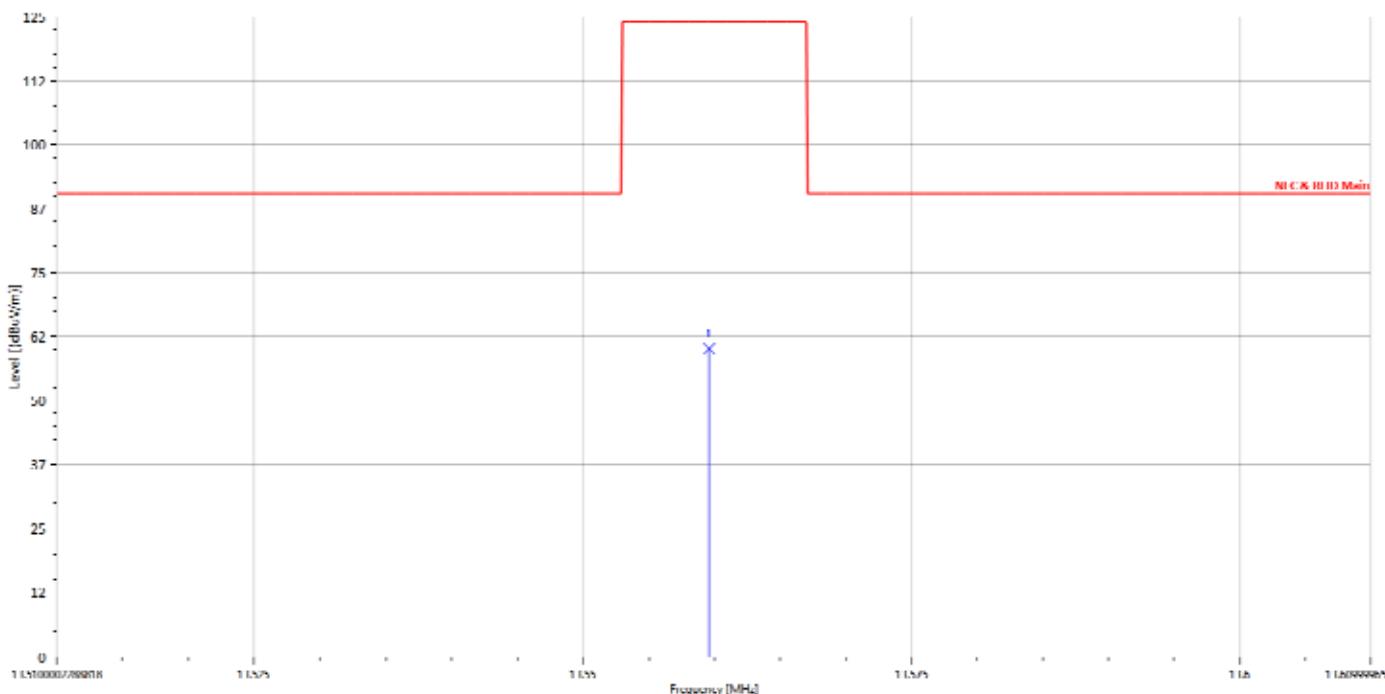
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Operation Mode : NFC Test Date : 2017/7/11
Fundamental Frequency : 13.56 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Main CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.56	F	Peak	48.56	11.64	60.20	123.9	-63.70

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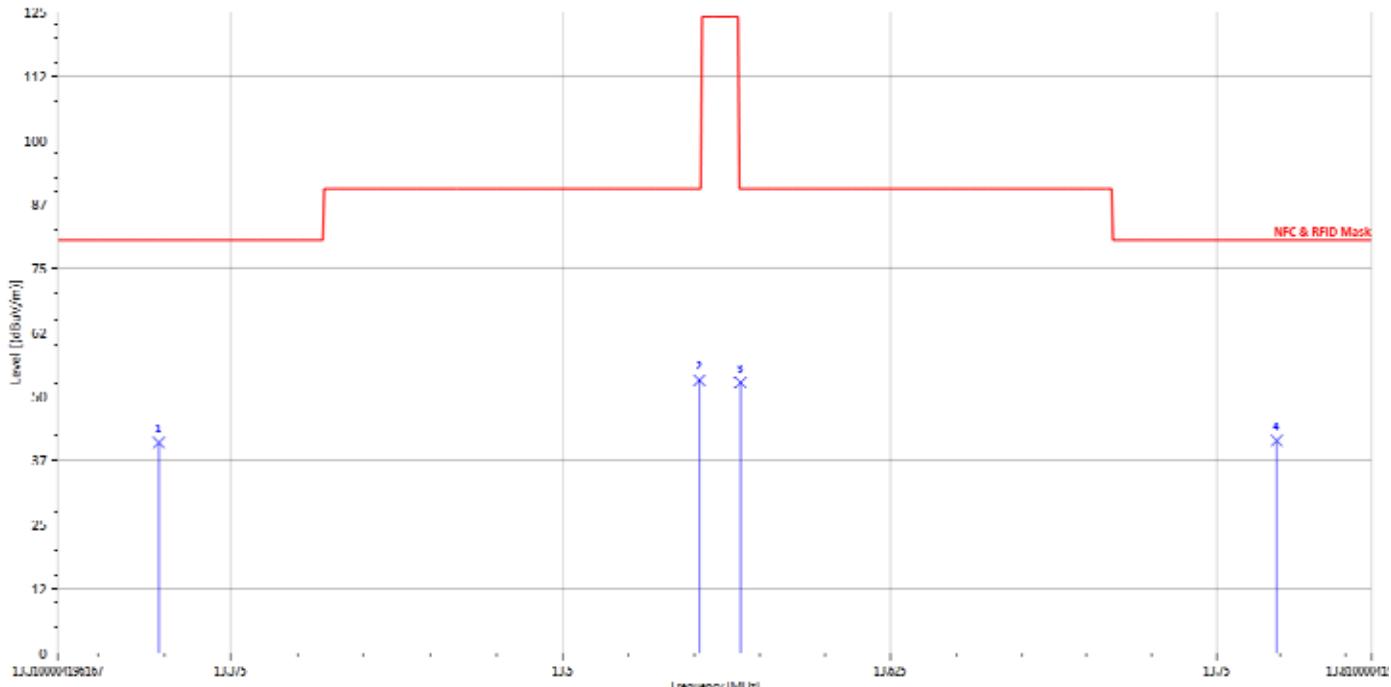
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7.5.3 Mask Measurement Result

Operation Mode : NFC Test Date : 2017/7/11
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Mask CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.35	S	Peak	29.35	11.64	41.00	80.5	-39.50
13.55	S	Peak	41.44	11.64	53.08	90.47	-37.39
13.57	S	Peak	41.01	11.64	52.65	90.47	-37.82
13.77	S	Peak	29.74	11.63	41.37	80.5	-39.13

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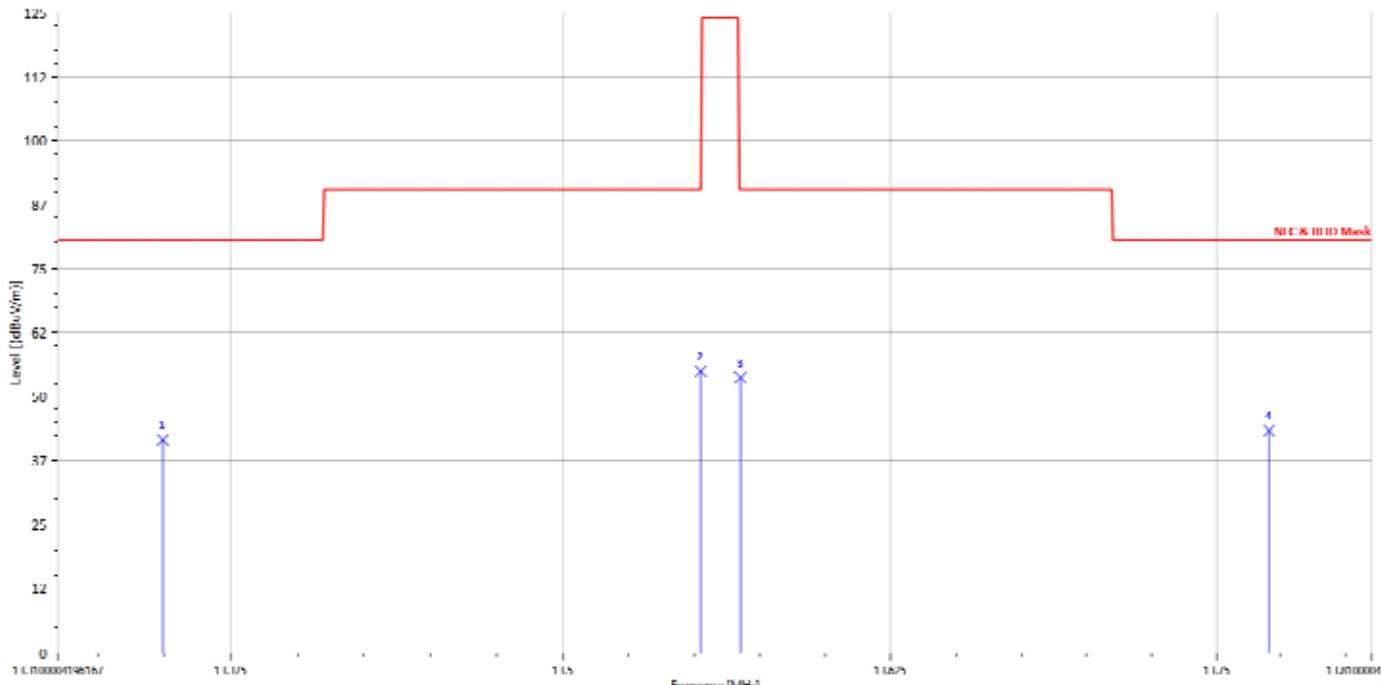
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Operation Mode : NFC Test Date : 2017/7/11
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Mask CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.35	S	Peak	29.97	11.64	41.62	80.5	-38.88
13.55	S	Peak	43.32	11.64	54.96	90.47	-35.51
13.57	S	Peak	42.07	11.64	53.70	90.47	-36.77
13.77	S	Peak	31.71	11.63	43.34	80.5	-37.16

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7.6 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 (μ V/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:

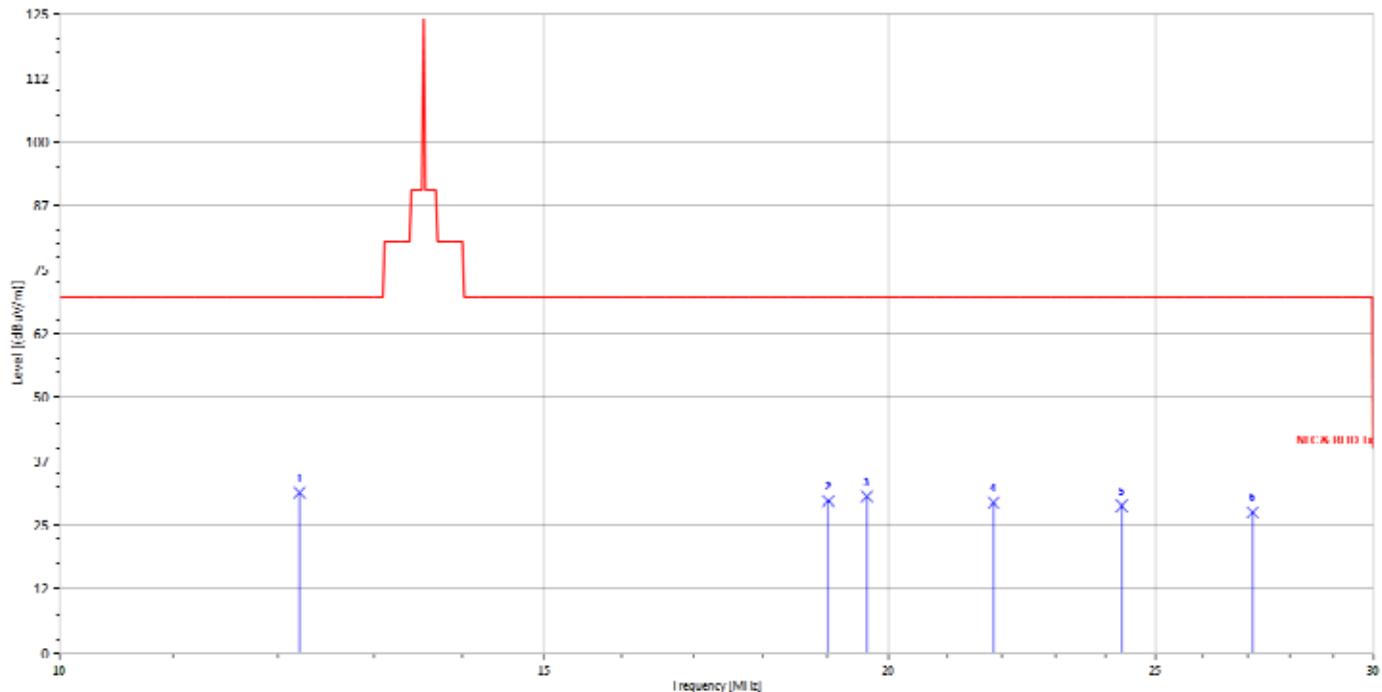
1. Emission level in $\text{dB}\mu\text{V}/\text{m} = 20 \log (\mu\text{V}/\text{m})$
2. Distance extrapolation factor = $40 \log (\text{required distance}/ \text{test distance})$ (dB)
3. The lower limit shall apply at the transition frequencies.
4. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.

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Radiated Emission Measurement Result

Operation Mode : NFC Test Date : 2017/7/11
Fundamental Frequency : 13.56 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12.22	S	Peak	19.62	11.66	31.27	69.54	-38.27
19.02	S	Peak	18.14	11.52	29.66	69.54	-39.88
19.64	S	Peak	19.03	11.50	30.53	69.54	-39.01
21.84	S	Peak	18.24	11.10	29.34	69.54	-40.20
24.30	S	Peak	18.19	10.57	28.76	69.54	-40.78
27.12	H	Peak	17.55	9.99	27.54	69.54	-42.00

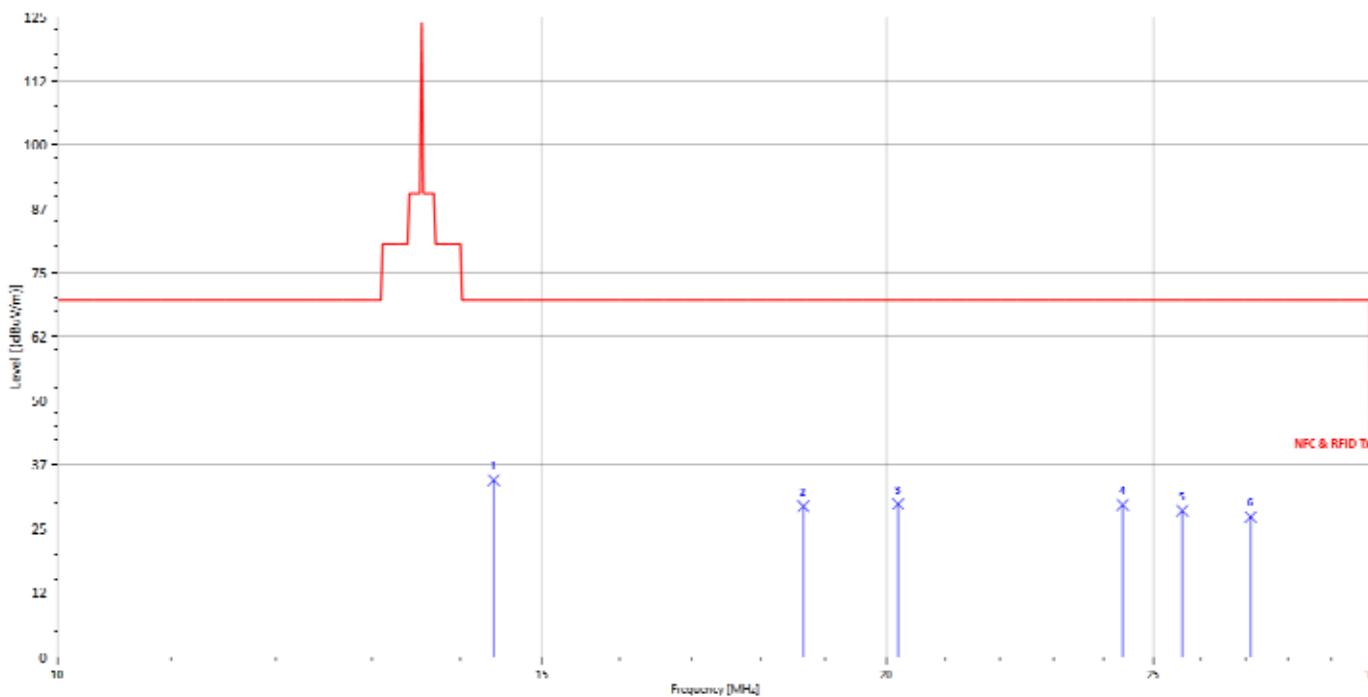
Note: There is a comparison data of both open-field test site and semi-Anechoic, and test result came out very similar.

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Operation Mode : NFC Test Date : 2017/7/11
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
14.40	S	Peak	22.84	11.62	34.46	69.54	-35.08
18.66	S	Peak	17.77	11.53	29.29	69.54	-40.25
20.20	S	Peak	18.29	11.45	29.74	69.54	-39.80
24.36	S	Peak	19.03	10.55	29.58	69.54	-39.96
25.62	S	Peak	18.14	10.30	28.43	69.54	-41.11
27.12	H	Peak	17.21	9.99	27.20	69.54	-42.34

Note: There is a comparison data of both open-field test site and semi-Anechoic, and test result came out very similar.

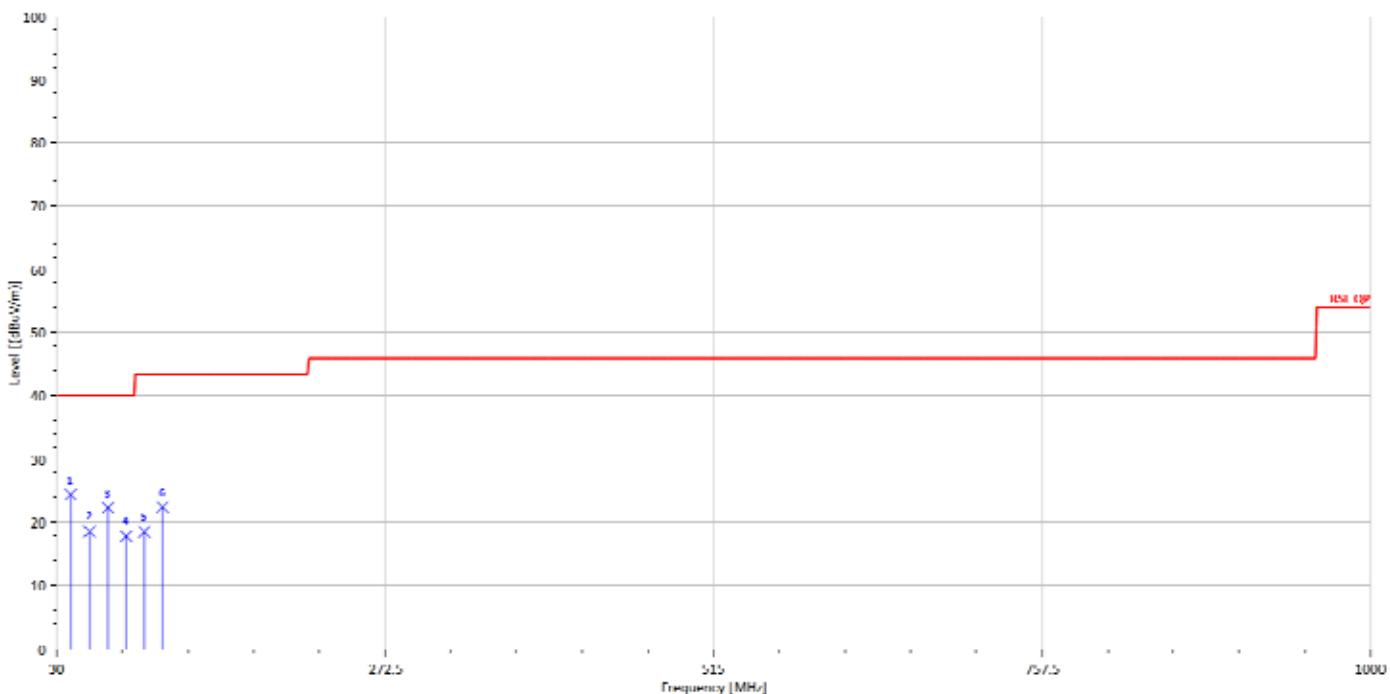
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 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
40.68	H	Peak	34.43	-10.06	24.37	40	-15.63
54.24	H	Peak	36.57	-17.95	18.62	40	-21.38
67.80	H	Peak	41.38	-19.11	22.27	40	-17.73
81.36	H	Peak	35.53	-17.66	17.87	40	-22.13
94.92	H	Peak	34.44	-15.87	18.57	43.5	-24.93
108.48	H	Peak	36.01	-13.63	22.37	43.5	-21.13

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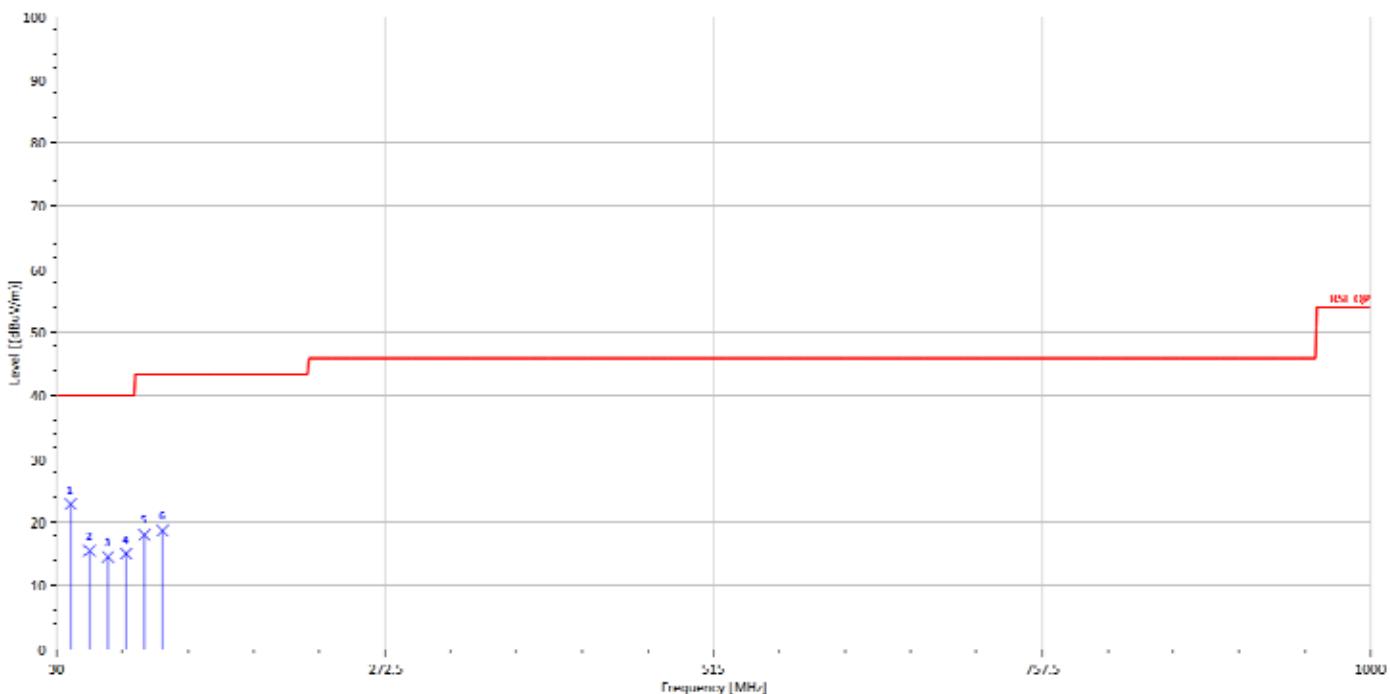
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Operation Mode : NFC Test Date : 2017/7/11
 Fundamental Frequency : 13.56 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
40.68	H	Peak	32.90	-10.06	22.84	40	-17.16
54.24	H	Peak	33.51	-17.95	15.56	40	-24.44
67.80	H	Peak	33.68	-19.11	14.57	40	-25.43
81.36	H	Peak	32.73	-17.66	15.07	40	-24.93
94.92	H	Peak	33.95	-15.87	18.08	43.5	-25.42
108.48	H	Peak	32.36	-13.63	18.72	43.5	-24.78

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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.

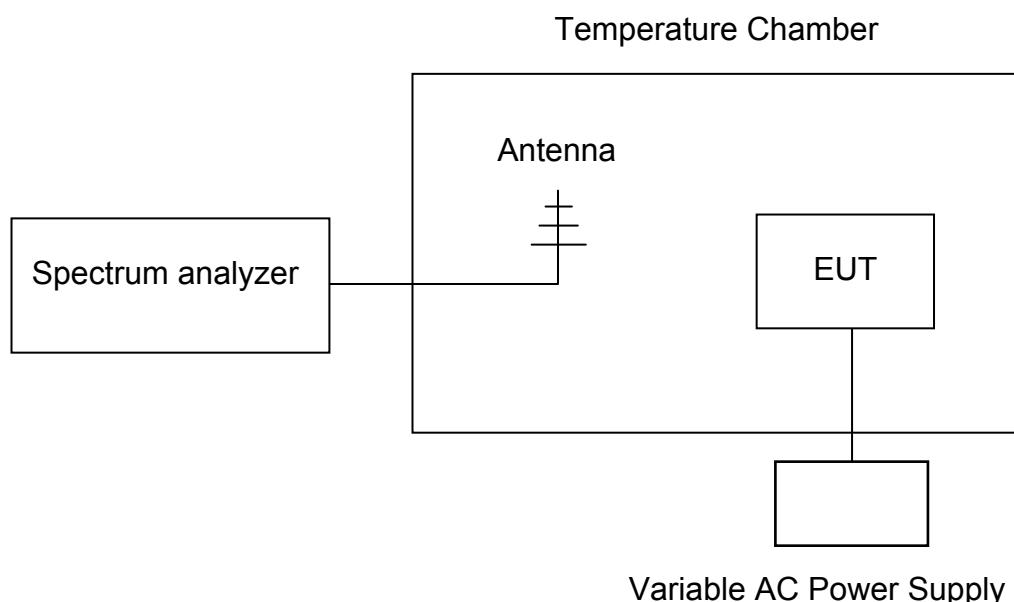
Carrier frequency stability shall be maintained to $\pm 0.01\%$ (± 100 ppm).

For licence-exempt radio apparatus, the frequency stability shall be measured at temperatures of -20°C (-4°F), +20°C (+68°F) and +50°C (+122°F).

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



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8.4 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017

8.5 Measurement Results:

Startup:

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
5	-20	13.559633	-2.00000	+/- 1.356
5	-10	13.559633	-2.00000	+/- 1.356
5	0	13.559632	-1.00000	+/- 1.356
5	10	13.559631	0.00000	+/- 1.356
5	20	13.559631	0.00000	+/- 1.356
5	30	13.559632	-1.00000	+/- 1.356
5	40	13.5596333	-2.30000	+/- 1.356
5	50	13.559632	-1.00000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
5.75	20	13.559631	0.00000	+/- 1.356
5	20	13.559631	0.00000	+/- 1.356
4.25	20	13.55963	1.00000	+/- 1.356

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2 minutes:**A. Temperature Variation**

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
5	-20	13.559632	2.00000	+/- 1.356
5	-10	13.559633	1.00000	+/- 1.356
5	0	13.559632	2.00000	+/- 1.356
5	10	13.559631	3.00000	+/- 1.356
5	20	13.559634	0.00000	+/- 1.356
5	30	13.559634	0.00000	+/- 1.356
5	40	13.5596332	0.80000	+/- 1.356
5	50	13.559631	3.00000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
5.75	20	13.559631	0.00000	+/- 1.356
5	20	13.559631	0.00000	+/- 1.356
4.25	20	13.55963	1.00000	+/- 1.356

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5 minutes:**A. Temperature Variation**

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
5	-20	13.559633	-2.00000	+/- 1.356
5	-10	13.559632	-1.00000	+/- 1.356
5	0	13.559632	-1.00000	+/- 1.356
5	10	13.55963	1.00000	+/- 1.356
5	20	13.559631	0.00000	+/- 1.356
5	30	13.559632	-1.00000	+/- 1.356
5	40	13.5596329	-1.90000	+/- 1.356
5	50	13.55963	1.00000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
5.75	20	13.55963	1.00000	+/- 1.356
5	20	13.559631	0.00000	+/- 1.356
4.25	20	13.559632	-1.00000	+/- 1.356

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10 minutes:**A. Temperature Variation**

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
5	-20	13.559633	0.00000	+/- 1.356
5	-10	13.559632	1.00000	+/- 1.356
5	0	13.559631	2.00000	+/- 1.356
5	10	13.559633	0.00000	+/- 1.356
5	20	13.559633	0.00000	+/- 1.356
5	30	13.559634	-1.00000	+/- 1.356
5	40	13.559633	0.00000	+/- 1.356
5	50	13.559631	2.00000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
5.75	20	13.559632	-1.00000	+/- 1.356
5	20	13.559631	0.00000	+/- 1.356
4.25	20	13.559633	-2.00000	+/- 1.356

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9 20 dB OCCUPIED BANDWIDTH MEASUREMENT

9.1 Standard Applicable:

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

9.2 Limit:

None

9.3 Test Set-up



9.4 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.

9.5 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017

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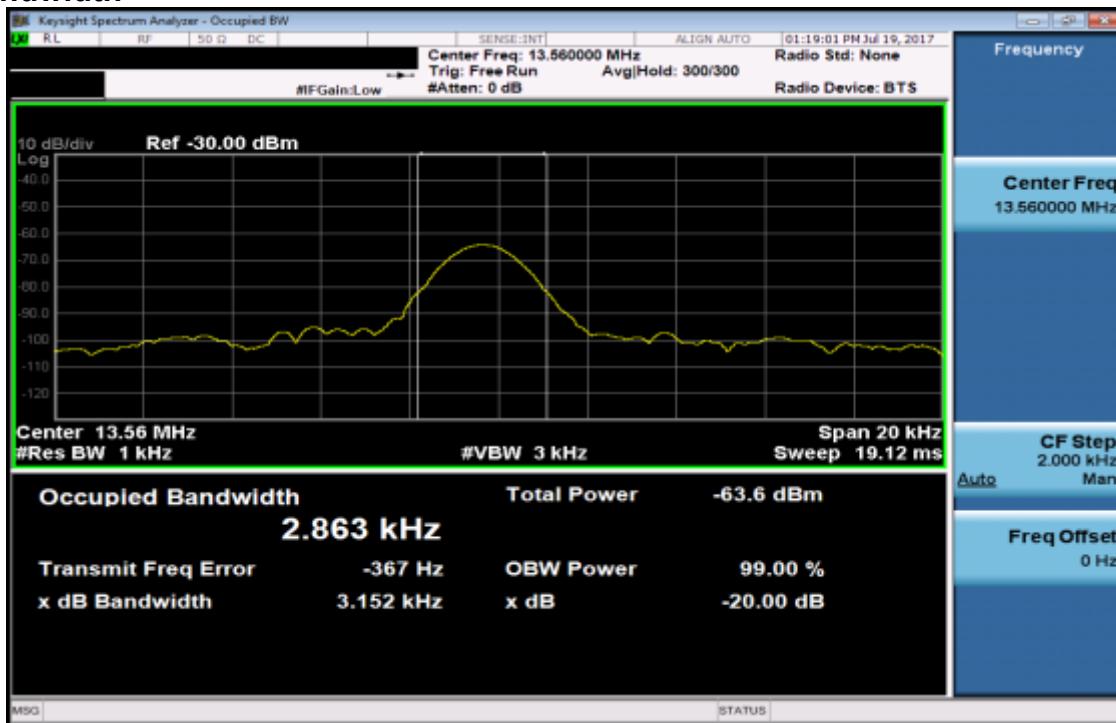
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9.6 Measurement Result

20dB Bandwidth



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10 ANTENNA REQUIREMENT

10.1. Standard Applicable

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.

~ End of Report ~

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