

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT $\cap \Gamma$

	OF
Applicant:	Sharp Corporation, Mobile Communication B.U. 2-13-1, Hachihonmatsu-Iida, Higashi-hiroshima-shi, Hiroshima 739-0192, Japan
Manufacturer:	Sharp Corporation 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan
Product Name:	Smart Phone
Report Number:	T190304W03-RP7
FCC ID:	APYHRO00272
FCC Rule Part	Part 15.225
Issue Date:	Mar. 26, 2019
Date of Test:	Mar. 05, 2019~Mar. 13, 2019
Date of EUT Received:	Mar. 05, 2019
Issued by:	Compliance Certification Services Inc.Wugu Lab. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Wei Chang

Tested By:

Wei Chang / Engineer

Approved By:

Kevin Tsai / Deputy Manager



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Revision Historv

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190304W03-RP7	Rev.00	Initial creation of document	All	Mar. 26, 2019	Violetta Tang

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GENERAL INFORMATION 1

1.1 Product Description

General:

Product Name:	Smart Phone
Hardware Version:	DVT
Software Version:	N/A
Power Supply:	3.85V from Rechargeable Li-ion Battery

NFC:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Antenna Type	Loop Antenna
Modulation Type	ASK

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1.2 Test Methodology

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

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

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.

1.6 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber. the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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SYSTEM TEST CONFIGURATION 2

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

The Transmitter was operated in the normal operating mode, the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a 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 §15.207. The two LISNs provide 50uH/50 ohm 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 a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. 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 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.

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2.4 Configuration of Tested System





Fig. 2-2 AC Power Line Conducted Emission



Table 2-1 Equipment Used in Tested System

lte m	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	NFC Test software	Tera Term	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-WGNK5	Shielded	Unshielded

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SUMMARY OF TEST RESULTS 3

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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DESCRIPTION OF TEST MODES Δ

4.1 The Worst Test Modes and Channel Details

- 1. The EUT stay in continuous transmission 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. Only one configuration is supported/applicable as follows.

AC POWER LINE CONDUCTED EMISSION TEST:

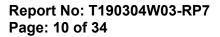
Test Condition	AC Power line conducted emission for line and neutral		
Worst Case	Operation in normal mode		

RADIATED EMISSION TEST						
MODE	AVAILABLE CHANNEL	MODULATION				
NFC	1	1	ASK			
	FREQUENCY STABILITY					
MODE AVAILABLE TESTED MODUL						
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, E1 mode) and lie down position (E2 mode) for NFC Transmitter for channel the worst case H position was reported.

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MEASUREMENT UNCERTAINTY 5

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575 dB
Frequency Stability	+/- 147.256 Hz
20 dB Occupied Bandwidth	+/- 147.256 Hz
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68 dB
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18 dB
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47 dB
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81 dB
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87 dB

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
- 3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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CONDUCTED EMISSIONS TEST 6

6.1 Standard Applicable

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

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

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	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBE CK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

6.3 EUT Setup:

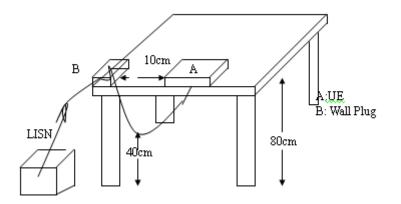
- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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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

escription:	Operation	Date:	2019/3/11
ne:	L1	Temp.(°C)/Hum.(%)	: 24(°C)/52%
st Voltage:	AC 120V/60Hz	Test By:	Peter
80.0 dBuV			
			Limit1: — Limit2: —
×			56
			, AX
30 × \		warman warman warman war	where ** have
30	* */ M MM MM M M MANAGER	south from the	
	*		
-20			
0.150	0.5 (MHz)	5	30.000

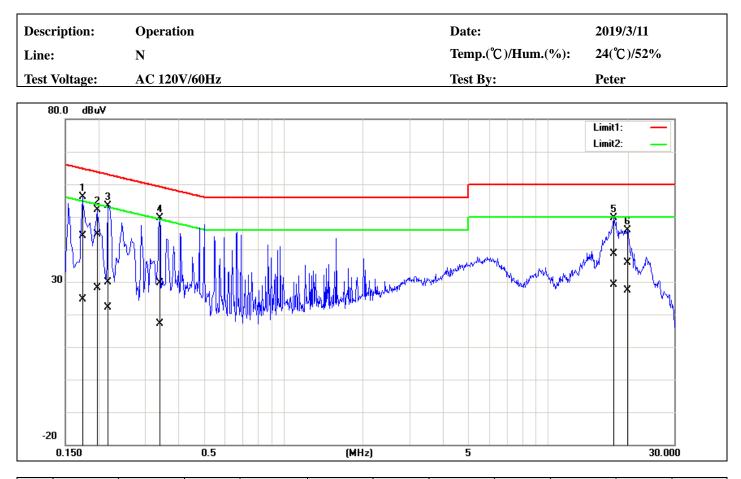
No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1900	48.48	34.61	0.15	48.63	34.76	64.03	54.04	-15.40	-19.28	Pass
2	0.2420	40.36	26.44	0.15	40.51	26.59	62.02	52.03	-21.51	-25.44	Pass
3	0.2700	40.69	24.21	0.15	40.84	24.36	61.12	51.12	-20.28	-26.76	Pass
4	0.3020	34.00	18.13	0.16	34.16	18.29	60.19	50.19	-26.03	-31.90	Pass
5	18.1100	42.96	33.00	0.65	43.61	33.65	60.00	50.00	-16.39	-16.35	Pass
6	19.5340	41.17	33.17	0.69	41.86	33.86	60.00	50.00	-18.14	-16.14	Pass

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No.	Frequency	QuasiPeak	Average	Correction factor	QuasiPeak	Average	QuasiPeak limit	Average limit	QuasiPeak	Average	Remark
		reading	reading	Tactor	result	result	111111	mmt	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1740	44.02	24.65	0.10	44.12	24.75	64.76	54.77	-20.64	-30.02	Pass
2*	0.1980	44.43	28.14	0.10	44.53	28.24	63.69	53.69	-19.16	-25.45	Pass
3	0.2180	29.75	22.13	0.10	29.85	22.23	62.89	52.89	-33.04	-30.66	Pass
4	0.3420	29.47	16.91	0.11	29.58	17.02	59.15	49.15	-29.57	-32.13	Pass
5	17.7099	38.12	28.61	0.51	38.63	29.12	60.00	50.00	-21.37	-20.88	Pass
6	19.9900	35.45	26.81	0.55	36.00	27.36	60.00	50.00	-24.00	-22.64	Pass

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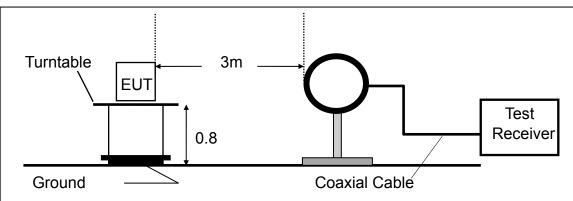
RADIATED EMISSION TEST 7

7.1 Measurement Procedure

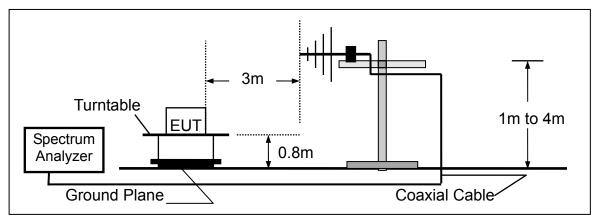
- 1. Configure the EUT according to ANSI C63.10.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 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 (Block Diagram of Configuration)

(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:

	966A Chamber									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due					
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019					
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020					
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020					
Loop Ant	COM-POWER	AL-130	121051	03/21/2018	03/20/2019					
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020					
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019					
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R					
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R					
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R					
Software		e3 \	/6.11-20180413							

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	

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7.5 Field Strength of Fundamental Emission

7.5.1 FCC Applicable standard

Rules and specifiactions	CFR 47 Part 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	124		
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 124.00dBuV/m by offsetting the distance extrapolation factor as measurement distance is taken place at 3 meters.

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

30m to 3m

Distance extrapolation = 40 *log (30/3) = 40 dB Limit is re-adjusted in terms of limit taken in 3m = 20 log (15848 uV/m) + 40 =124.00dBuV/m

30m to 10m

Distance extrapolation = 40 *log (30/10) = 19.08 dB Limit is re-adjusted in terms of limit taken in 3m = 20 *log (15848 uV/m) + 19.08 = 103.08dBuV/m

10m to 3m

Distance extrapolation = 40 *log (10/3) = 20.92 dB Limit is re-adjusted in terms of limit taken in 3m = 20 *log (15848 uV/m) + 20.92 = 104.92dBuV/m

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Note:

- 1. Emission level in dBuV/m=20 log (μ V/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 below 30MHz at 10m and 3m and above 30MHz at 3m, where extrapolation factor is offset to convert the limit of the measurement.
- KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification: Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.
- 6. Emission level in dBuV/m=20 log (µV/m)
- 7. Distance extrapolation factor = $40 \log$ (required distance/ test distance) (dB)
- 8. The lower limit shall apply at the transition frequencies.
- 9. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.

Actual FS(dB μ V/m) = Spectrum. Reading level(dB μ V) + Factor(dB) Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

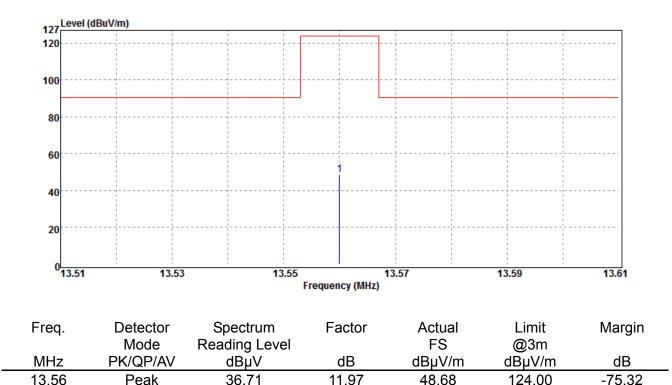
The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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7.6 Field Strength of Fundamental Emission Measurement Result

Operation Band	:NFC	Test Date	:2019-03-11
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:MAIN	Engineer	:Wei
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Ba Fundamenta Operation Me EUT Pol.	I Frequency	:NFC :13.56 MHz :MAIN :H Plane		Test Date Temp./Hur Engineer Measurem	ni. ient Antenna Pol.	:2019-03-11 :20 deg_C / 61 RH :Wei :HORIZONTAL	1
127	(dBuV/m)						
120							
100					·		
80		· · · · · · · · · · · · · · · · · · ·					
60			4				
40							
40							
20		· · · · · · · · · · · · · · · · · · ·					
0 13.51	13	.53 13.5	55	13.57	13.59	13.61	
15.51	15	.55 15.	Frequency (MHz)		13.35	15.01	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Leve		FS	@3m	-	
MHz	PK/QP/A		dB	dBµV/m	dBµV/m	dB	
13.56	Peak	35.15	11.97	47.12	124.00	-76.88	

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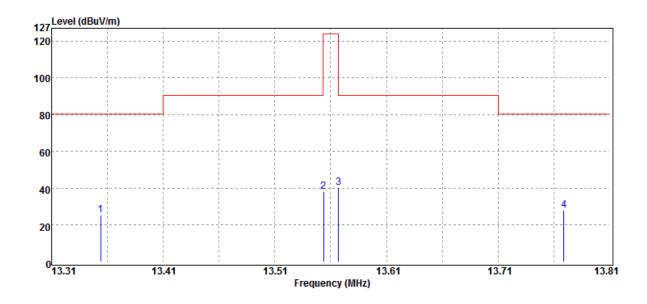


7.6.1 Radiated Mask

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:NFC :13.56 MHz :MASK :H Plane

Test Date :2019-03-11 Temp./Humi. :20 deg_C / 61 RH Engineer :Wei Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
13.35	Peak	13.66	11.98	25.64	80.50	-54.86
13.55	Peak	26.31	11.97	38.28	124.00	-85.72
13.57	Peak	28.50	11.97	40.47	90.47	-50.00
13.77	Peak	16.01	11.95	27.96	80.50	-52.54

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:2019-03-11

:20 deg C / 61 RH



Fundamental Frequency

:NFC

:13.56 MHz

Operation Band

13.57

13.77

Peak

Peak

peration Moo JT Pol.	de	:MASK :H Plane		Engineer Measureme	ent Antenna Pol	:Wei :HORIZONTAL
127 Level (d	BuV/m)			i i	i i	
120	·					
100						
80						
60						
40			2 3		4	
20						
0 <mark></mark>	13.4		1 Frequency (MHz)	3.61	13.71	13.81
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
13.35 13.55	Peak Peak	13.88 26.79	11.98 11.97	25.86 38.76	80.50 90.47	-54.64 -51.71

11.97

11.95

38.54

28.25

124.00

80.50

-85.46

-52.25

Test Date

Temp./Humi.

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26.57

16.30

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7.7 Radiated Emission Measurement

7.7.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209 as below.

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:

1. Emission level in $dB\mu V/m=20 \log (\mu V/m)$

- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 20*log(30uV/m) + 40dB = 69.54 dBuV/m
- 4. The lower limit shall apply at the transition frequencies.
- 5. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
- 6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
- 7. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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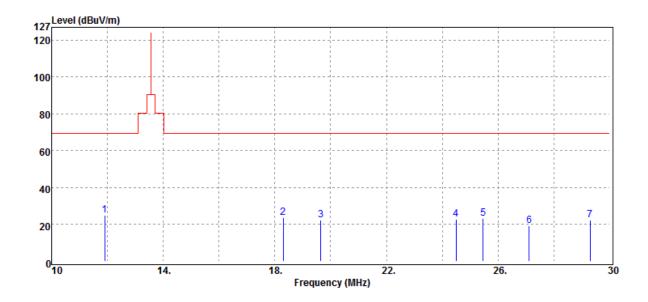


7.7.2 Radiated Emission Measurement Result

Operation Band Fundamental Frequency Operation Mode EUT Pol.

:NFC :13.56 MHz :Tx :H Plane

Test Date :2019-03-11 Temp./Humi. :20 deg_C / 61 RH Engineer :Wei Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11.90	Peak	12.99	12.09	25.08	69.54	-44.46
18.30	Peak	12.13	11.66	23.79	69.54	-45.75
19.64	Peak	11.02	11.59	22.61	69.54	-46.93
24.50	Peak	12.22	10.58	22.80	69.54	-46.74
25.46	Peak	12.69	10.39	23.08	69.54	-46.46
27.12	Peak	9.05	10.08	19.13	69.54	-50.41
29.30	Peak	12.68	9.70	22.38	69.54	-47.16

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:2019-03-11



:NFC

Operation Band

Fundamental Frequency :13.56 MHz Temp./Humi. :20 deg C / 61 RH **Operation Mode** :Tx Engineer :Wei EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL _evel (dBuV/m) 127 120 100 80 60 40 2 20 0<u>10</u> 14. 18 22 26. 30 Frequency (MHz)

Test Date

Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11.90	Peak	12.64	12.09	24.73	69.54	-44.81
18.84	Peak	10.51	11.64	22.15	69.54	-47.39
19.90	Peak	9.88	11.59	21.47	69.54	-48.07
23.06	Peak	10.51	10.88	21.39	69.54	-48.15
24.86	Peak	11.59	10.51	22.10	69.54	-47.44
27.12	Peak	9.03	10.08	19.11	69.54	-50.43
29.46	Peak	11.30	9.67	20.97	69.54	-48.57

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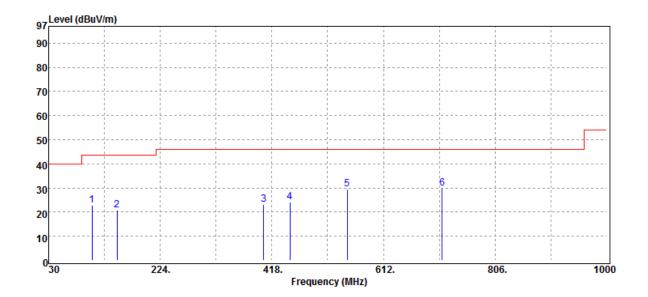
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Operation Band	:NFC	Test Date	:2019-03-11
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20 deg_C / 61 RH
Operation Mode	:Tx	Engineer	:Wei
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
105.66	Peak	33.42	-10.45	22.97	43.50	-20.53
149.31	Peak	30.33	-9.50	20.83	43.50	-22.67
403.45	Peak	27.71	-4.59	23.12	46.00	-22.88
449.04	Peak	27.20	-3.07	24.13	46.00	-21.87
548.95	Peak	30.98	-1.31	29.67	46.00	-16.33
713.85	Peak	28.52	1.22	29.74	46.00	-16.26

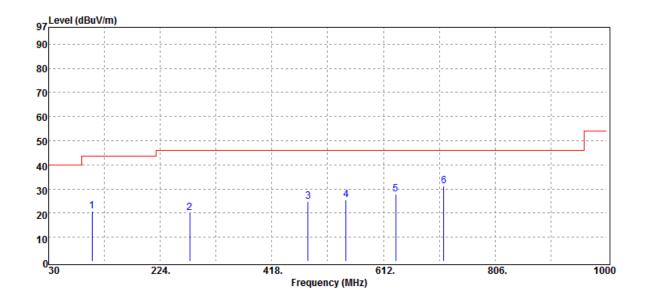
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Operation Band :NFC Test Date :2019-03-11 **Fundamental Frequency** :13.56 MHz Temp./Humi. :20 deg C / 61 RH **Operation Mode** :Tx Engineer :Wei EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
105.66	Peak	31.28	-10.45	20.83	43.50	-22.67
275.41	Peak	27.97	-7.71	20.26	46.00	-25.74
481.05	Peak	26.78	-2.01	24.77	46.00	-21.23
547.01	Peak	26.67	-1.25	25.42	46.00	-20.58
633.34	Peak	27.01	0.90	27.91	46.00	-18.09
716.76	Peak	30.00	1.25	31.25	46.00	-14.75

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FREQUENCY TOLERANCE 8

8.1 Measurement Procedure

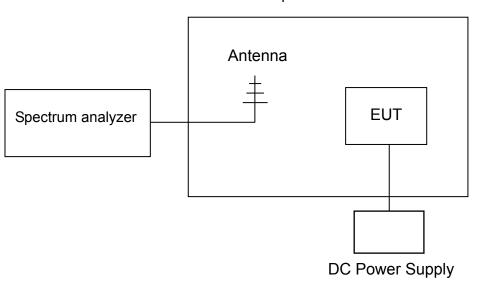
The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature 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 on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- 4. Set SPA Max hold. Mark peak.

8.3 Test SET-UP (Block Diagram of Configuration)



Temperature Chamber

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8.4 Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019		
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/03/2018	05/02/2019		
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019		
Temperature Chamber	TERCHY	MHG-120LF	911009	05/18/2018	05/17/2019		
Coaxial Cable	Huber Suhner	SUCOFLEX 102EPA	MY2616/2	02/26/2019	02/25/2020		
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019		

8.5 Measurement Results

Startup:

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (℃)	(MHz)		
3.85	-20	13.560096	-0.03600	+/- 1.356
3.85	-10	13.559998	0.06200	+/- 1.356
3.85	0	13.560004	0.05600	+/- 1.356
3.85	10	13.559996	0.06400	+/- 1.356
3.85	20	13.56006	0.00000	+/- 1.356
3.85	30	13.5601	-0.04000	+/- 1.356
3.85	40	13.560084	-0.02400	+/- 1.356
3.85	50	13.559951	0.10900	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency		Limit (KUz)
Vdc	Temperature (℃)	(MHz)	Delta (KHz)	Limit (KHz)
4.43	20	13.559944	0.11600	+/- 1.356
3.85	20	13.56006	0.00000	+/- 1.356
3.27	20	13.559969	0.09100	+/- 1.356

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2 Minutes:

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
3.85	-20	13.560021	0.03500	+/- 1.356
3.85	-10	13.55994	0.11600	+/- 1.356
3.85	0	13.560047	0.00900	+/- 1.356
3.85	10	13.559907	0.14900	+/- 1.356
3.85	20	13.560056	0.00000	+/- 1.356
3.85	30	13.55995	0.10600	+/- 1.356
3.85	40	13.559901	0.15500	+/- 1.356
3.85	50	13.559932	0.12400	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency		Limit (KUT)
Vdc	Temperature (℃)	(MHz)	Delta (KHz)	Limit (KHz)
4.43	20	13.560043	0.01300	+/- 1.356
3.85	20	13.560056	0.00000	+/- 1.356
3.27	20	13.559918	0.13800	+/- 1.356

5 Minutes:

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
3.85	-20	13.560093	-0.13500	+/- 1.356
3.85	-10	13.560049	-0.09100	+/- 1.356
3.85	0	13.560087	-0.12900	+/- 1.356
3.85	10	13.56002	-0.06200	+/- 1.356
3.85	20	13.559958	0.00000	+/- 1.356
3.85	30	13.559998	-0.04000	+/- 1.356
3.85	40	13.5599	0.05800	+/- 1.356
3.85	50	13.55996	-0.00200	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency		Limit (KUz)
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Delta (KHz)	Limit (KHz)
4.43	20	13.559984	-0.02600	+/- 1.356
3.85	20	13.559958	0.00000	+/- 1.356
3.27	20	13.559981	-0.02300	+/- 1.356

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10 Minutes:

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
3.85	-20	13.560092	-0.11200	+/- 1.356
3.85	-10	13.55994	0.04000	+/- 1.356
3.85	0	13.559969	0.01100	+/- 1.356
3.85	10	13.56005	-0.07000	+/- 1.356
3.85	20	13.55998	0.00000	+/- 1.356
3.85	30	13.56009	-0.11000	+/- 1.356
3.85	40	13.559925	0.05500	+/- 1.356
3.85	50	13.560017	-0.03700	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolta (KHz)	Limit (KHz)
Vdc	Temperature (℃)	(MHz)	Delta (KHz)	
4.43	20	13.560036	-0.05600	+/- 1.356
3.85	20	13.55998	0.00000	+/- 1.356
3.27	20	13.559964	0.01600	+/- 1.356

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20 dB OCCUPIED BANDWIDTH MEASUREMENT 9

9.1 Standard Applicable:

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

9.2 Limit:

None

9.3 Test Set-up

Refer to section 8.3 in this report

9.4 Measurement Procedure

- 1. Placed the EUT on the testing table.
- 2. Set the EUT under transmission condition continuously at specific channel frequency.
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Measured the spectrum width with power higher than 20dB below carrier.

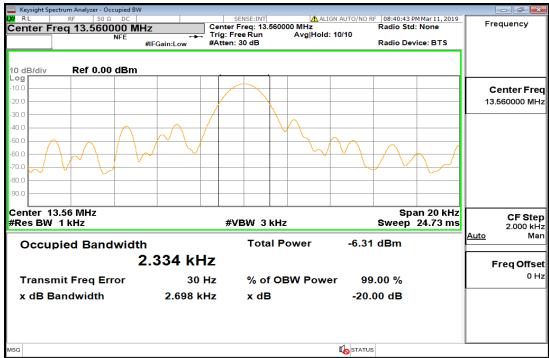
9.5 Measurement Equipment Used:

Refer to section 8.4 in this report

9.6 Measurement Result

20dB BW (kHz)	Opration range	Frequency (MHz)	Limit (MHz)
	Low	13.55882	>13.11
2.698	High	13.56120	<14.01

-20dB Bandwidth

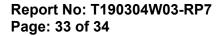


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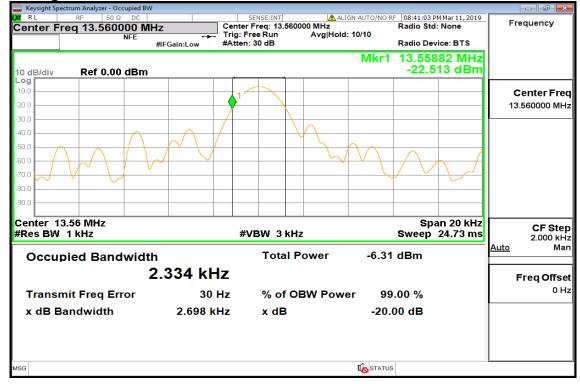
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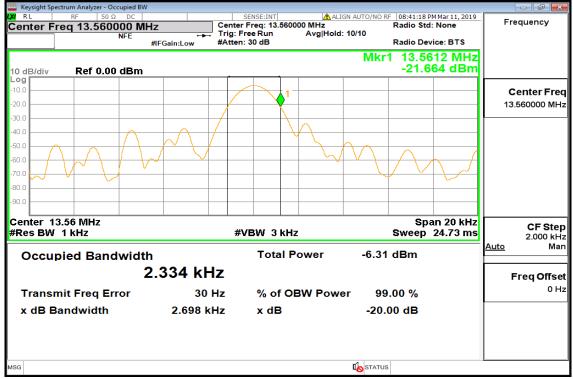




Operation range Low



Operation range High



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10 ANTENNA REQUIREMENT

10.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

10.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

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