

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: LOUIS VUITTON MALLETIER
2, rue du Pont Neuf 75001 PARIS

Product Name: Louis Vuitton Tambour Horizon

Brand Name: LOUIS VUITTON

Model No.: QAD0

Model Difference: N/A

Report Number: E2/2020/C0021

FCC ID 2ALDGQAD0

IC: 22571-QAD0

FCC Rule Part Part 15.225

IC RSS: RSS-210 issue 10 Annex B B.6 Dec. 2019

Issue Date: February 4, 2021

Date of Test: December 16, 2020 - December 31, 2020

Date of EUT Received: December 16, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab . 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.

Jay Lin
Approved By: _____

Jay Lin / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2020/C0021	Rev.00	Original.	February 4, 2021	Revised By: Violetta Tang

Note:**1、Disclaimer**

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Louis Vuitton Tambour Horizon
Brand Name:	LOUIS VUITTON
Model No.:	QAD0
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
EUT Series No.:	20J745641534
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery or 5V from AC/DC Adapter

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	< 124dB _V /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
RSS-210 issue 10 Annex B B.6 Dec. 2019
RSS-Gen. issue 5, Amendment 1, March 2019
ANSI C63.10:2013.

1.3 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333
FCC Designation number: TW0028
ISED CAB identifier: TW3702

1.4 Special Accessories

There is no other accessory attached. This is the worst case condition.

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

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. 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.

2.3.3 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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2.4 Configuration of Tested System

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

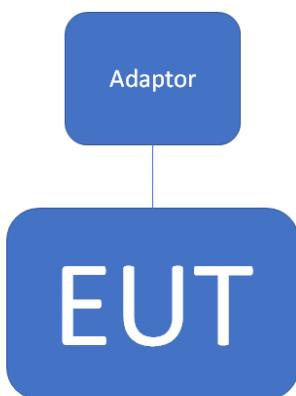


Fig. 2-2 Conducted (Antenna Port) Configuration

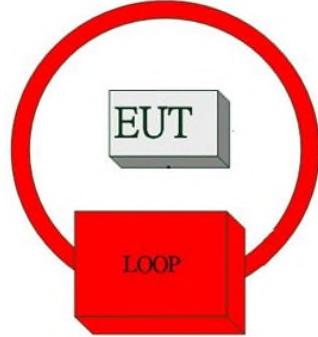


Table 2-1 Equipment Used in Tested System

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

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen § 8.8	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	RSS210 Annex B B.6	Radiated Emission	Compliant
§15.209	RSS-Gen § 8.9	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	RSS210 Annex B B.6 (b)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	RSS-Gen § 6.7	20 dB & 99% OCCUPIED BANDWIDTH	Compliant
§15.203	N/A	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 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.
4. There are 2 type of wrist bands: Metal and Non-Metal. The 2 wrist bands were pre-tested, and the metal wrist band was tested fully for all required items.

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, E1 mode) and lie down position (E2 mode) for NFC Transmitter for channel 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	+/- 123.36 Hz
20 dB OCCUPIED BANDWIDTH	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%

Radiated Spurious Emission Measurement Uncertainty	
Polarization: Vertical	9kHz~30MHz: +/- 2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +/- 2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSIONS TEST

6.1 Standard Applicable

According to §15.207 and frequency within 150 kHz 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.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	03/25/2020	03/24/2021
EMI Test Receiver	R&S	ESCI	101342	04/28/2020	04/27/2021

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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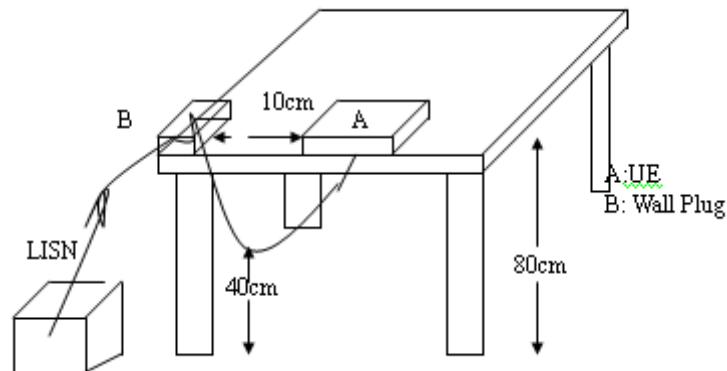
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground 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.

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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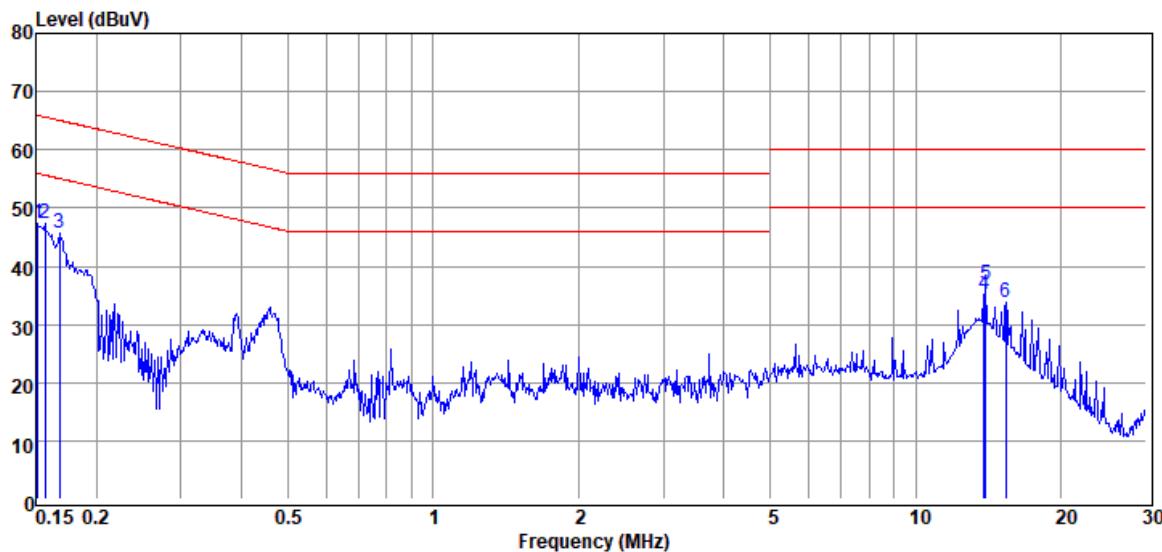
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:E2/2020/C0021	Test Site	:Conduction Room C
Test Mode	:NFC	Test Date	:2020-12-24
Power	:120V/60Hz	Temp./Humi.	:24.6/60
Probe	:L1	Engineer	:Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.15	Peak	37.10	10.22	47.32	65.91	-18.59
0.16	Peak	37.01	10.22	47.23	65.65	-18.42
0.17	Peak	35.40	10.22	45.62	65.08	-19.46
13.84	Peak	24.41	10.77	35.18	60.00	-24.82
13.99	Peak	26.08	10.77	36.85	60.00	-23.15
15.39	Peak	23.11	10.79	33.90	60.00	-26.10

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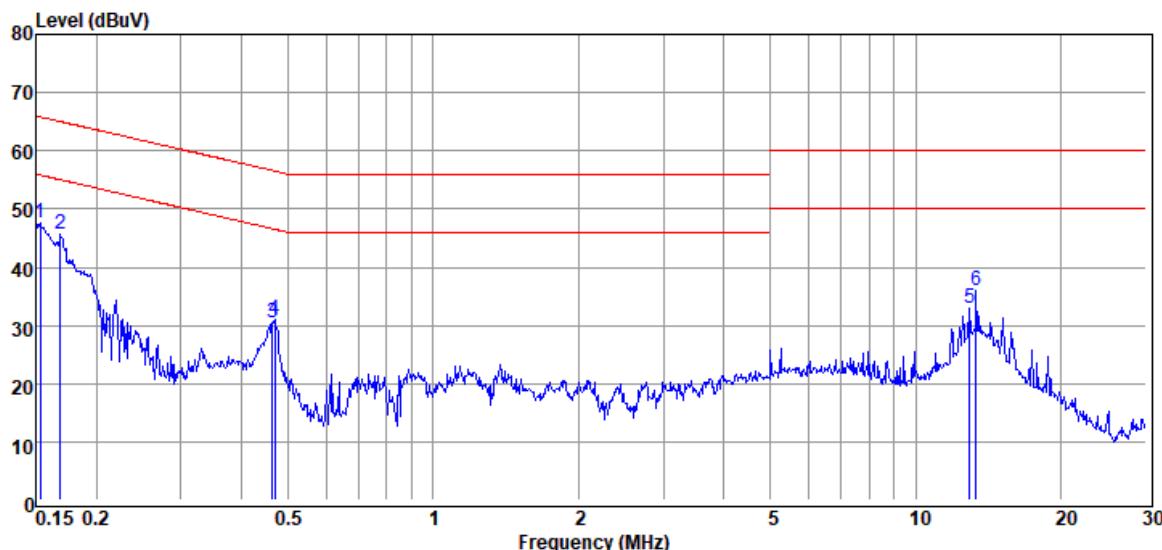
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Report Number	:E2/2020/C0021	Test Site	:Conduction Room C
Test Mode	:NFC	Test Date	:2020-12-24
Power	:120V/60Hz	Temp./Humi.	:24.6/60
Probe	:N	Engineer	:Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.15	Peak	37.27	10.21	47.48	65.82	-18.34
0.17	Peak	35.50	10.21	45.71	65.03	-19.32
0.46	Peak	20.34	10.22	30.56	56.63	-26.07
0.47	Peak	20.68	10.22	30.90	56.54	-25.64
12.92	Peak	22.23	10.77	33.00	60.00	-27.00
13.34	Peak	25.13	10.77	35.90	60.00	-24.10

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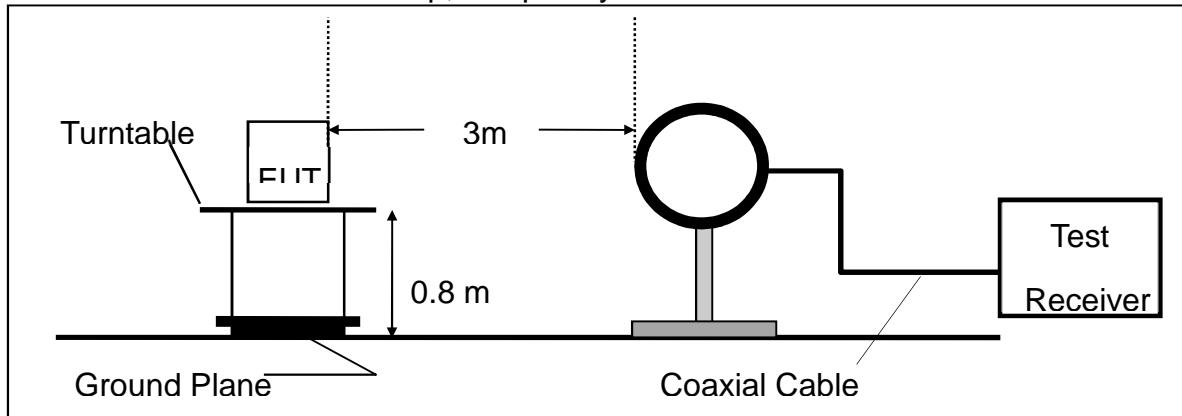
7 RADIATED EMISSION TEST

7.1 Measurement Procedure

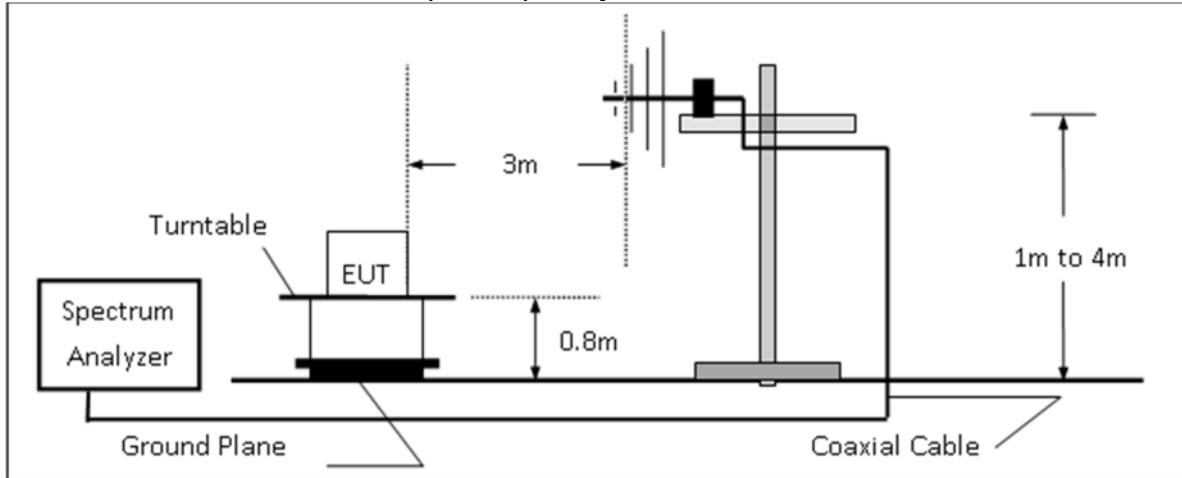
1. Configure the EUT according to ANSI C63.10.
2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. 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:

SGS 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
3m Site NSA	SGS	966 chamber D	N/A	07/12/2020	07/11/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021

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		

7.5 Field Strength of Fundamental Emission

7.5.1 Applicable standard

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	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

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Radiated Mask per ISED RSS 210 Annex B B6

- (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

7.5.2 Distance Extrapolation Factor

30m to 3m

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

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

30m to 10m

Distance extrapolation = $40 * \log (30/10) = 19.08$ dB

Limit is re-adjusted in terms of limit taken in 3m = $20 * \log (15848 \mu\text{V}/\text{m}) + 19.08 = 103.08$ dB μ V/m

10m to 3m

Distance extrapolation = $40 * \log (10/3) = 20.92$ dB

Limit is re-adjusted in terms of limit taken in 3m = $20 * \log (15848 \mu\text{V}/\text{m}) + 20.92 = 104.92$ dB μ V/m

Note:

1. Emission level in dB μ V/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. 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.

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

Factor(dB) = Antenna Factor(dB μ V/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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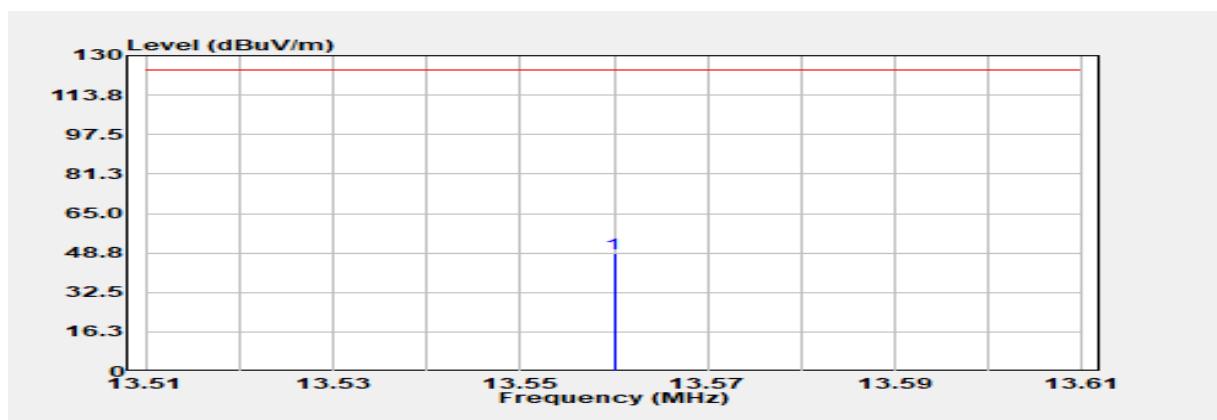
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7.5.3 Field Strength of Fundamental Emission Measurement Result

Report Number	:E2/2020/C0021	Test Site	:966 Chamber D
Operation Mode	:NFC	Test Date	:2020-12-22
Test Frequency	:13.56 MHz	Temp./Humi.	:21.2/67
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Kailin Lee



Freq. MHz	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
13.560	Peak	37.04	11.39	48.42	124.00	-75.58

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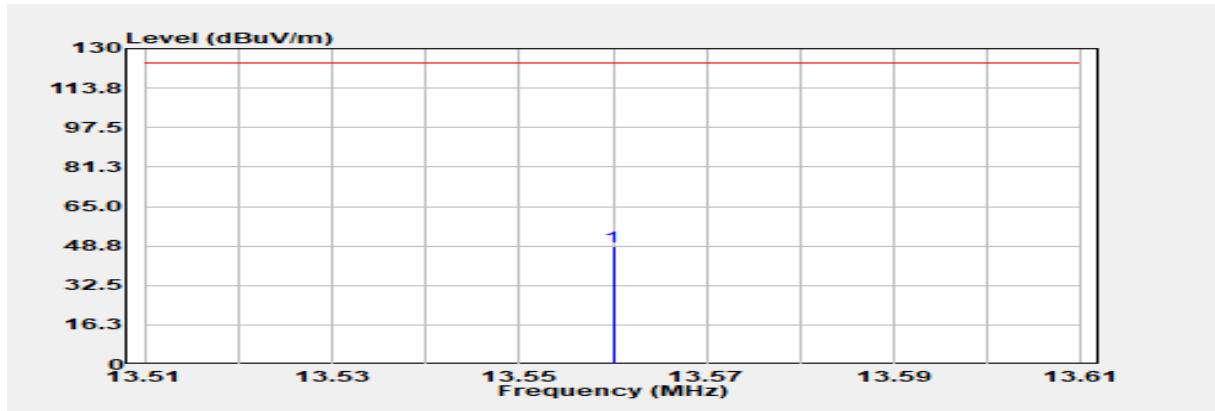
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Report Number :E2/2020/C0021 Test Site :966 Chamber D
Operation Mode :NFC Test Date :2020-12-22
Test Frequency :13.56 MHz Temp./Humi. :21.2/67
Test Mode :Main Antenna Pol. :Horizontal
EUT Pol :H Plan Engineer :Kailin Lee



Freq. MHz	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
13.560	Peak	37.12	11.39	48.51	124.00	-75.49

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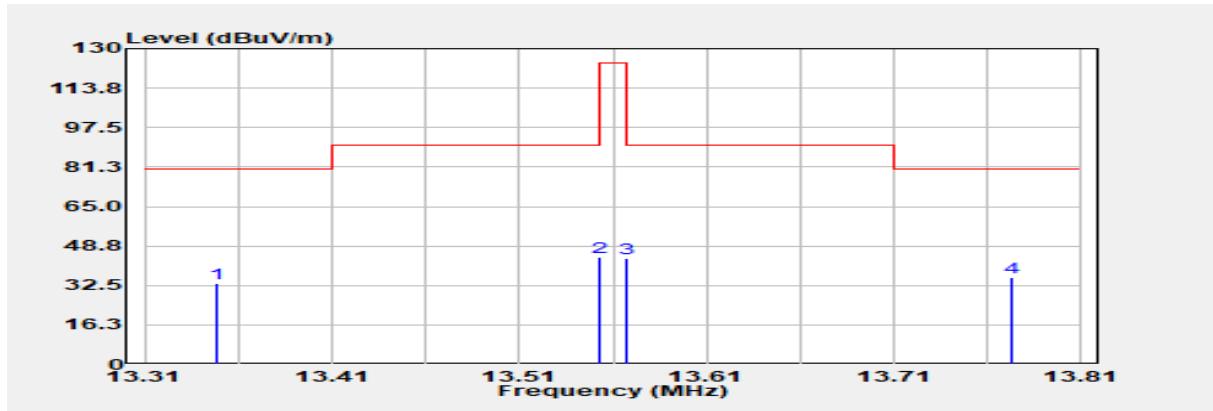
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Report Number :E2/2020/C0021 Test Site :966 Chamber D
Operation Mode :NFC Test Date :2020-12-22
Test Frequency :13.56 MHz Temp./Humi. :21.2/67
Test Mode :Mask Antenna Pol. :Vertical
EUT Pol :H Plan Engineer :Kailin Lee



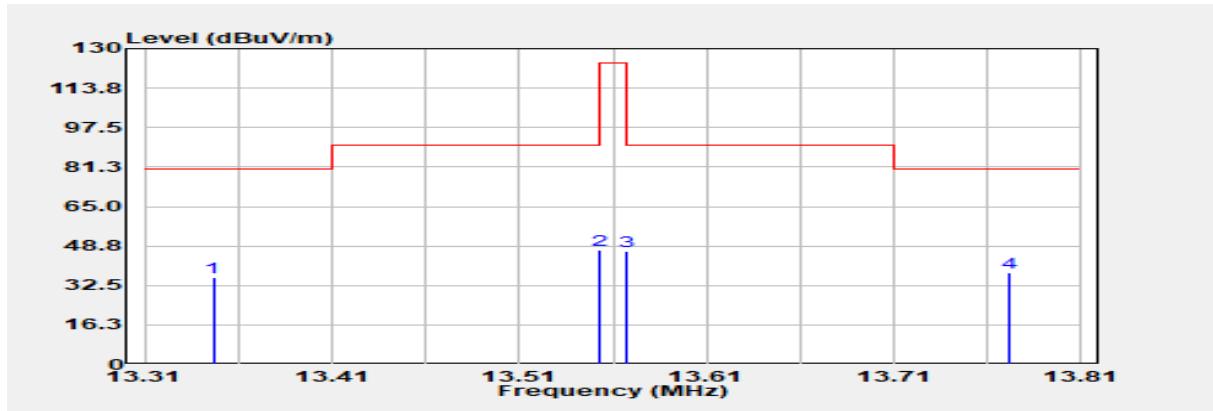
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.348	Peak	21.87	11.40	33.27	80.54	-47.27
13.553	Peak	32.57	11.39	43.96	90.47	-46.51
13.567	Peak	32.25	11.39	43.63	90.47	-46.84
13.773	Peak	24.64	11.37	36.01	80.50	-44.49

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Report Number :E2/2020/C0021 Test Site :966 Chamber D
 Operation Mode :NFC Test Date :2020-12-22
 Test Frequency :13.56 MHz Temp./Humi. :21.2/67
 Test Mode :Mask Antenna Pol. :Horizontal
 EUT Pol :H Plan Engineer :Kailin Lee



Freq. MHz	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
13.347	Peak	24.59	11.40	35.99	80.54	-44.55
13.553	Peak	35.54	11.39	46.93	90.47	-43.54
13.567	Peak	35.46	11.39	46.84	90.47	-43.63
13.772	Peak	26.55	11.37	37.92	80.50	-42.58

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7.6 Radiated Spurious Emission Measurement

7.6.1 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 (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. $20 \log (30 \mu\text{V}/\text{m}) + 40 \text{dB} = 69.54 \text{ dB}\mu\text{V}/\text{m}$
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 and RSS-Gen §8.10.
7. The general radiated emission limits in §15.209 and RSS-Gen §8.9 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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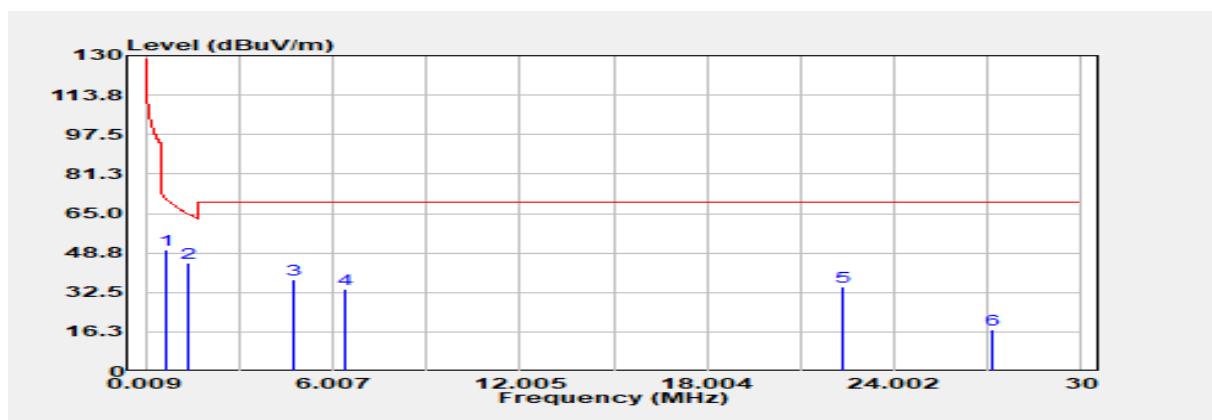
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7.6.2 Radiated Spurious Emission Measurement Result

Report Number :E2/2020/C0021 Test Site :966 Chamber D
 Operation Mode :NFC Test Date :2020-12-22
 Test Frequency :13.56 MHz Temp./Humi. :21.2/67
 Test Mode :TX CH MID Antenna Pol. :Vertical
 EUT Pol :H Plan Engineer :Kailin Lee



Freq. MHz	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
0.669	Peak	38.90	11.37	50.27	71.11	-20.84
1.359	Peak	33.32	11.16	44.48	64.94	-20.46
4.778	Peak	26.49	11.22	37.71	69.54	-31.83
6.367	Peak	22.57	11.41	33.99	69.54	-35.55
22.382	Peak	24.49	10.45	34.94	69.54	-34.60
27.120	Peak	7.66	9.53	17.19	69.54	-52.35

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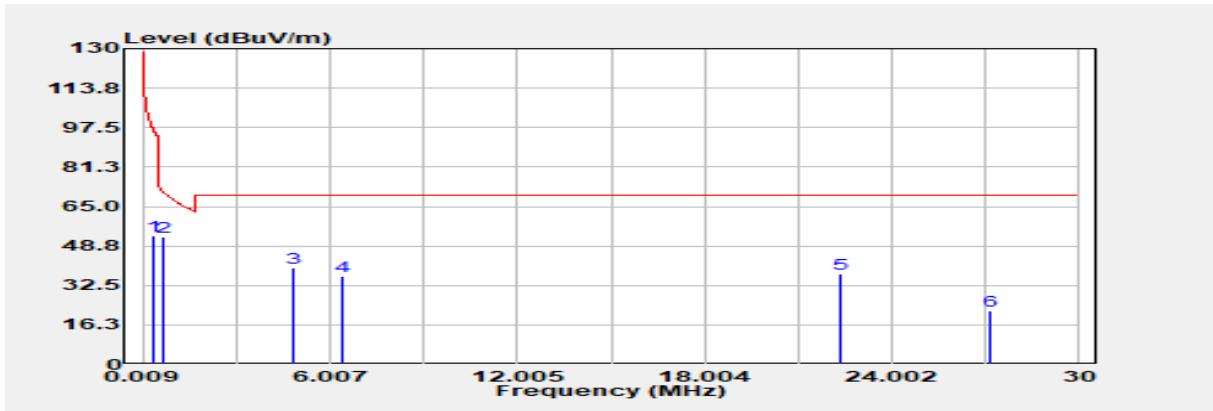
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Test Mode :TX CH MID Antenna Pol. :Horizontal
EUT Pol :H Plan Engineer :Kailin Lee



Freq. MHz	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
0.339	Peak	41.42	11.39	52.81	97.00	-44.19
0.669	Peak	41.28	11.37	52.65	71.11	-18.45
4.808	Peak	28.57	11.23	39.79	69.54	-29.75
6.397	Peak	25.13	11.41	36.54	69.54	-33.00
22.382	Peak	26.80	10.45	37.26	69.54	-32.28
27.120	Peak	12.66	9.53	22.19	69.54	-47.35

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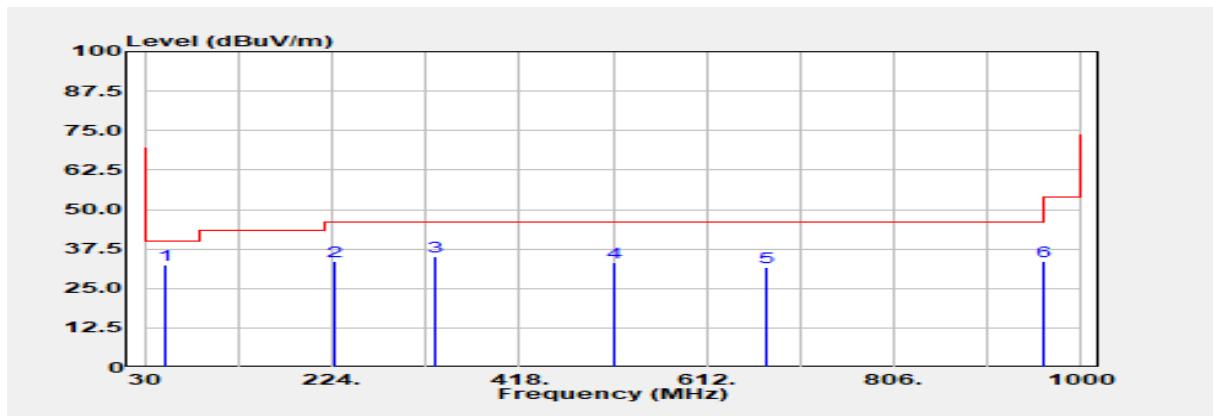
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EUT Pol :H Plan Engineer :Kailin Lee



Freq. MHz	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
50.370	Peak	50.10	-17.62	32.48	40.00	-7.52
225.940	Peak	53.31	-19.89	33.42	46.00	-12.58
331.670	Peak	50.47	-15.40	35.07	46.00	-10.93
516.940	Peak	44.35	-11.04	33.31	46.00	-12.69
673.110	Peak	40.60	-8.74	31.87	46.00	-14.13
960.230	Peak	38.41	-4.89	33.52	54.00	-20.48

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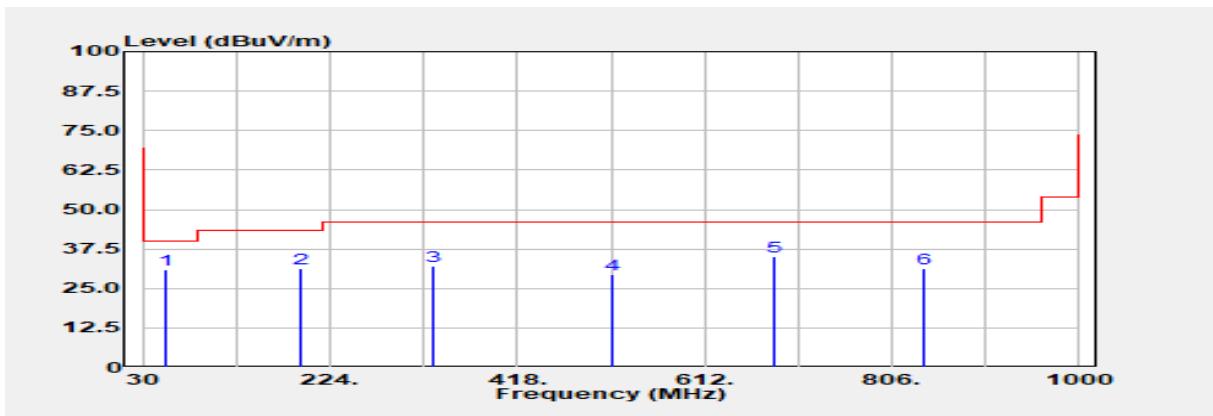
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EUT Pol :H Plan Engineer :Kailin Lee



Freq. MHz	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
54.250	Peak	48.56	-17.80	30.76	40.00	-9.24
193.930	Peak	51.11	-19.67	31.44	43.50	-12.06
331.670	Peak	47.52	-15.40	32.12	46.00	-13.88
515.970	Peak	40.36	-10.88	29.48	46.00	-16.52
683.780	Peak	43.10	-7.93	35.18	46.00	-10.82
839.950	Peak	37.77	-6.38	31.39	46.00	-14.61

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8 FREQUENCY STABILITY

8.1 Applicable Standard

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.

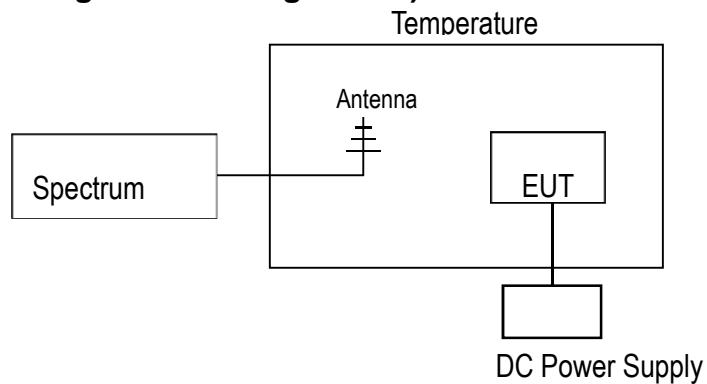
Carrier frequency stability shall be maintained to $\pm 0.01\%$ (± 100 ppm).

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
3. 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)



8.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/25/2020	06/24/2021
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/08/2020	07/07/2021
DC Block	PASTERNAK	PE8210	RF156	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A 185C	RF71	11/19/2020	11/18/2021

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8.5 Measurement Results

Startup

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.560325	-0.55000	+/- 1.356
3.8	-10	13.559415	0.36000	+/- 1.356
3.8	0	13.559015	0.76000	+/- 1.356
3.8	10	13.559375	0.40000	+/- 1.356
3.8	20	13.559775	0.00000	+/- 1.356
3.8	30	13.559555	0.22000	+/- 1.356
3.8	40	13.560125	-0.35000	+/- 1.356
3.8	50	13.559765	0.01000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
4.3	20	13.560155	-0.38000	+/- 1.356
3.8	20	13.559775	0.00000	+/- 1.356
3.8	20	13.560195	-0.42000	+/- 1.356

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.560115	-0.54000	+/- 1.356
3.8	-10	13.559405	0.17000	+/- 1.356
3.8	0	13.558945	0.63000	+/- 1.356
3.8	10	13.560225	-0.65000	+/- 1.356
3.8	20	13.559575	0.00000	+/- 1.356
3.8	30	13.558835	0.74000	+/- 1.356
3.8	40	13.559985	-0.41000	+/- 1.356
3.8	50	13.559405	0.17000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
4.3	20	13.559745	-0.17000	+/- 1.356
3.8	20	13.559575	0.00000	+/- 1.356
3.8	20	13.559015	0.56000	+/- 1.356

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5 minutes**A. Temperature Variation**

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.560035	-0.19000	+/- 1.356
3.8	-10	13.559585	0.26000	+/- 1.356
3.8	0	13.559655	0.19000	+/- 1.356
3.8	10	13.559825	0.02000	+/- 1.356
3.8	20	13.559845	0.00000	+/- 1.356
3.8	30	13.559695	0.15000	+/- 1.356
3.8	40	13.559345	0.50000	+/- 1.356
3.8	50	13.559555	0.29000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
4.3	20	13.560085	-0.24000	+/- 1.356
3.8	20	13.559845	0.00000	+/- 1.356
3.8	20	13.559515	0.33000	+/- 1.356

10 minutes**A. Temperature Variation**

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
3.8	-20	13.559895	-0.42000	+/- 1.356
3.8	-10	13.559555	-0.08000	+/- 1.356
3.8	0	13.559665	-0.19000	+/- 1.356
3.8	10	13.559255	0.22000	+/- 1.356
3.8	20	13.559475	0.00000	+/- 1.356
3.8	30	13.558755	0.72000	+/- 1.356
3.8	40	13.559655	-0.18000	+/- 1.356
3.8	50	13.559915	-0.44000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (KHz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
4.3	20	13.558865	0.61000	+/- 1.356
3.8	20	13.559475	0.00000	+/- 1.356
3.8	20	13.558615	0.86000	+/- 1.356

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9 20 dB & 99% OCCUPIED BANDWIDTH MEASUREMENT

9.1 Applicable Standard:

The 20 dB and 99% 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 Equipment Used:

Refer to section 8.4 in this report

9.5 Measurement Procedure

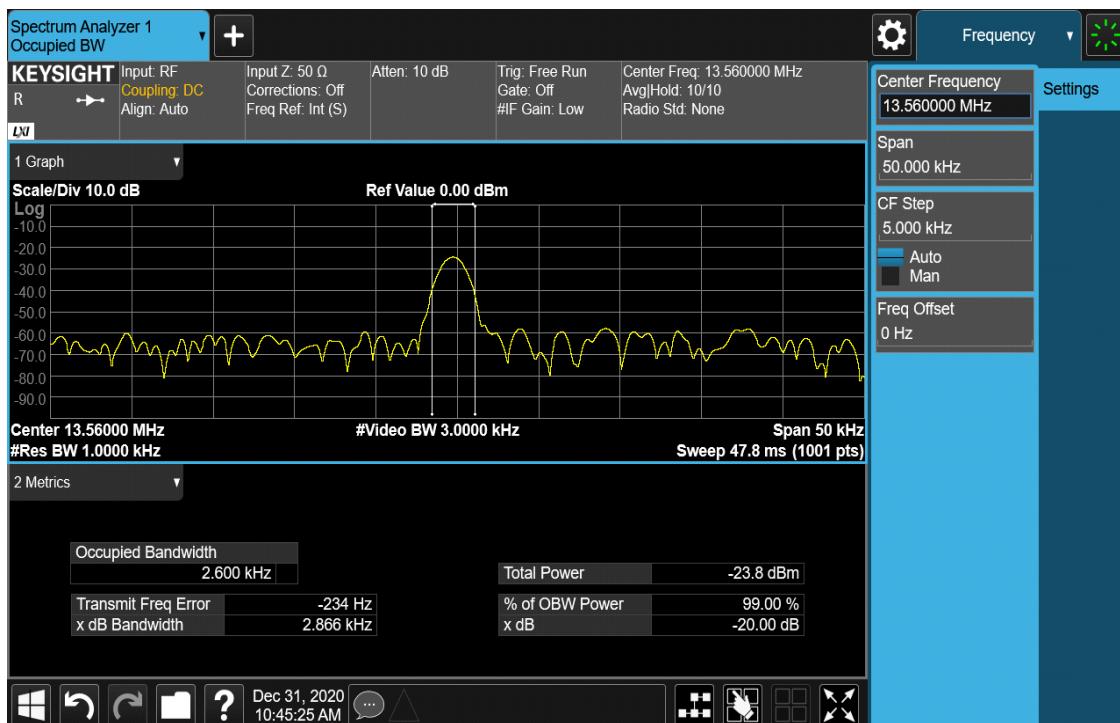
1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
4. Measured the spectrum width with power higher than 20dB below carrier.

9.6 Measurement Result

FCC			
20dB BW (kHz)	Operation range	Frequency (MHz)	Limit (MHz)
2.866	Low	13.55845	>13.11
	High	13.56110	<14.01

IC
99% BW (kHz)
2.6

Bandwidth



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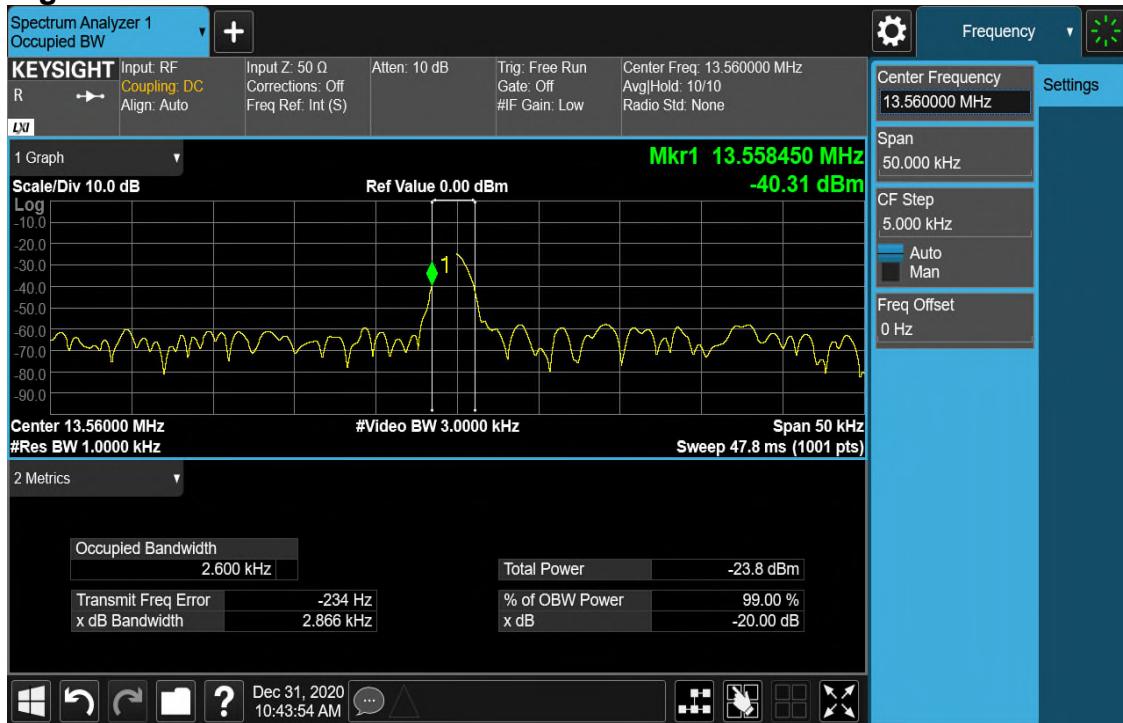
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f (886-2) 2298-0488

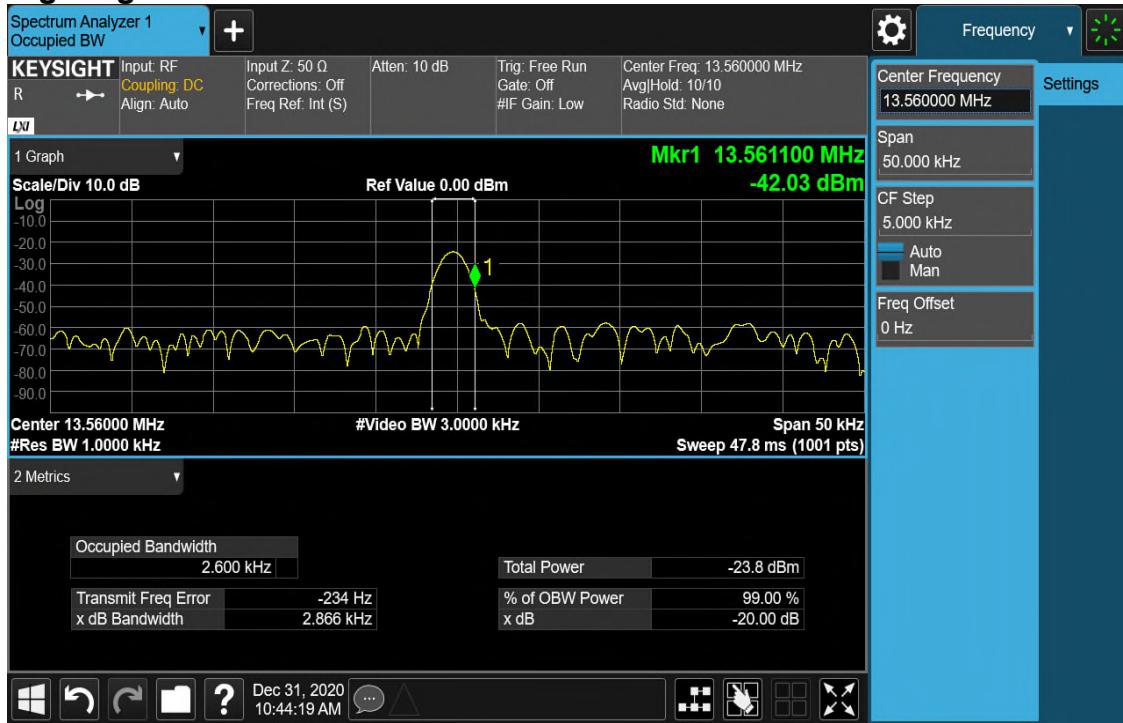
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Operation range Low



Operation range High



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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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.

~ End of Report ~

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