



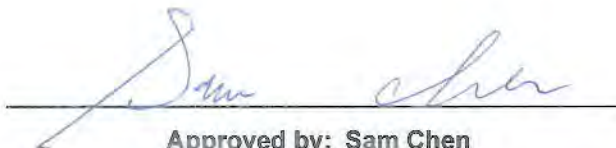
FCC RADIO TEST REPORT

FCC ID : MSQI001D
Equipment : ASUS Phone(Mobile Phone)
Brand Name : ASUS
Model Name : ASUS_I001D, ASUS_I001DC
Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN
Manufacturer : Guangdong Enok Communication Co., Ltd.
No. 137, 139, Lixiang Road., Songmushan Village,
Dalang Town, Dongguan City, Guangdong
Province, China
Standard : 47 CFR FCC Part 15.255

The product was received on May 08, 2019, and testing was started from May 20, 2019 and completed on Jun. 12, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013, 47 CFR FCC Part 15.255, Millimeter Wave Test Procedures and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	FCC 15.207	AC Power Conducted Emissions	PASS	-
3.2	FCC 15.255(e)	Occupied Bandwidth	PASS	-
3.3	FCC 15.255(c)	EIRP Power	PASS	-
3.4	FCC 15.255(c)	Peak Conducted Power	PASS	-
3.5	FCC 15.255(d)	Transmitter Spurious Emissions	PASS	-
3.6	FCC 15.255(f)	Frequency Stability	PASS	-
3.7	FCC 15.255(a), (h)	Operation Restriction and Group Installation	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Cindy Peng



1 General Description

1.1 Information

1.1.1 The Channel Plan(s)

Frequency Range	57-66 GHz
The Channel Plan(s)	
Channel 1: 58.32 GHz	
Channel 2: 60.48 GHz	
Channel 3: 62.64 GHz	

1.1.2 Modulation

Modulation
MCS0~MCS12

1.1.3 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Murata	LBKA0U11QA	Printed Array antenna	N/A	10.5

Note: The above information was declared by manufacturer.

1.1.4 Power Levels

Worst Power Levels			
Applicable power levels	☐ Conducted ☒ EIRP		
Frequency (GHz)	Highest (P_{high}):		
	Mode	AV Power (dBm)	Peak Power (dBm)
60.48	MCS8	15.11	24.88

1.1.5 Operating Conditions

Operating Conditions			
☐ -20 °C to +50 °C			
☐ 0 °C to +40 °C			
☒ Other: -10 °C to +55 °C			
EUT Power Type	From host system or Power Adapter		
Supply Voltage	☐ AC	State AC voltage	V
Supply Voltage	☒ DC	State DC voltage 3.7	V



1.1.6 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	CPU Supports Rate	Up to 6CA or 5CA
ASUS_I001D	8150-AC 20 layers	6CA
ASUS_I001DC	8150-AC 12 layers	5CA

From the above models, model: ASUS_I001D was selected as representative model for the test and its data was recorded in this report.

1.1.7 Equipment Use Condition

Equipment Use Condition
☐ Fixed field disturbance sensors at 61-61.5GHz
☐ Except fixed field disturbance sensors at 61-61.5GHz
☒ Except fixed field disturbance sensors

1.1.8 User Condition

Intended Operation
☒ Indoor
☐ Outdoor (except outdoor fixed Point to Point)
☐ Outdoor fixed Point to Point

Note: The above information was declared by manufacturer.

1.1.9 Duty Cycle

Duty Cycle	Duty Cycle Factor (dB)
100 %	0.00



1.2 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Power Adapter	ASUS	AD2130320	Input: 100-240Vac, 50/60Hz, 0.8A Output: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 2.5A / 3.3-5.9Vdc, 3A / 3.3-11Vdc, 3A
2	Li-ion Battery	ASUS	C11P1901	3.85Vdc, 23.1Wh
No.	Equipment Name	Brand Name	Model Name	Remark
3	Earphone 1	ASUS	EA009B	Non-shielded, 1.2m
4	Earphone 2	ASUS	EA010B	Non-shielded, 1.2m
5	USB Cable	ASUS	LA9U2015-CS-R	Shielded, 1.2m
Note: The EUT could be equipped with either earphone 1 or earphone 2.				

1.3 Support Equipment

For AC Power Conducted Emissions Test Item:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	Latitude 6430u	N/A
B	AP Router	ASUS	RP-N53	MSQ-RPN53

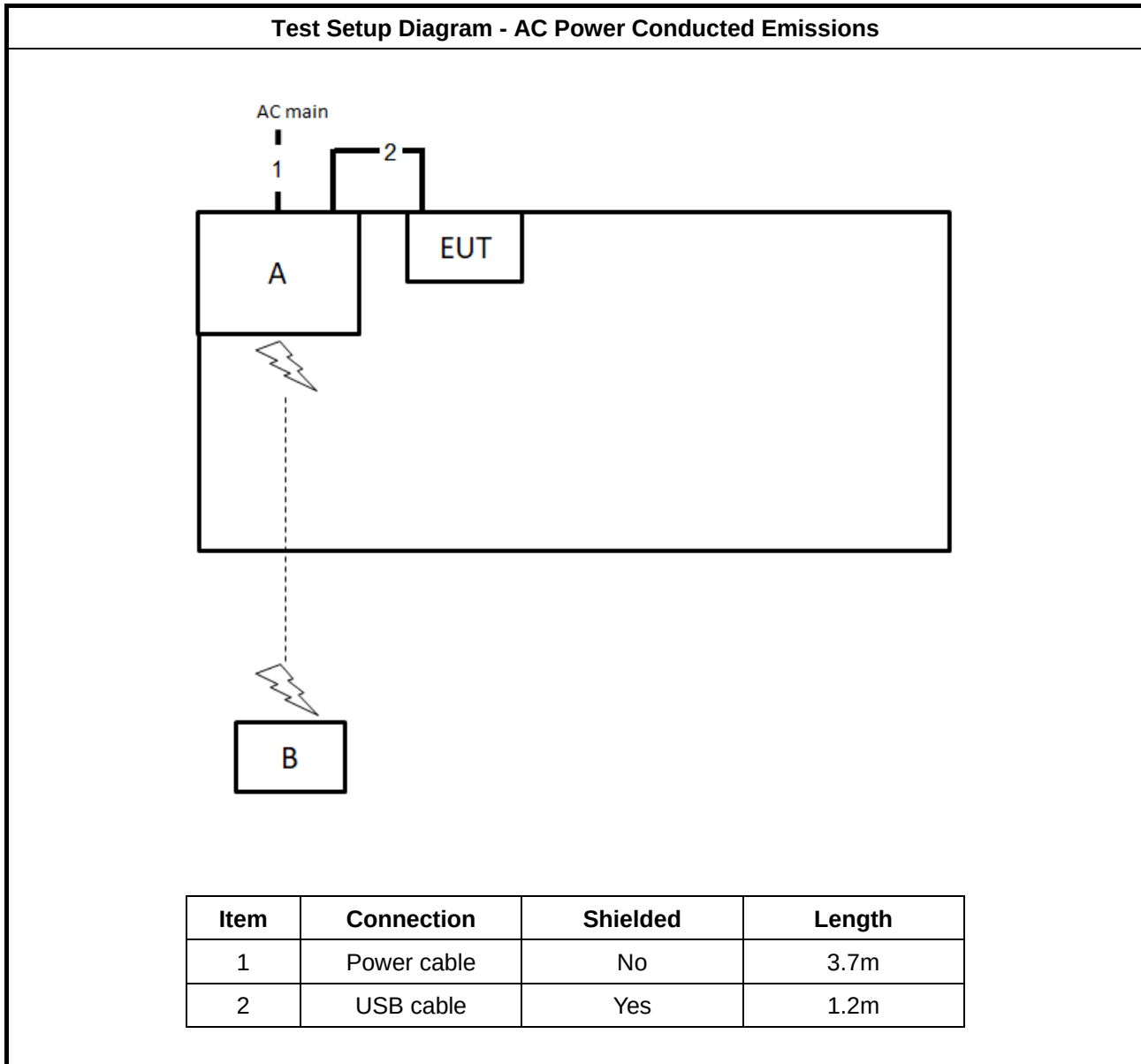
For RF Radiated and RF Conducted:

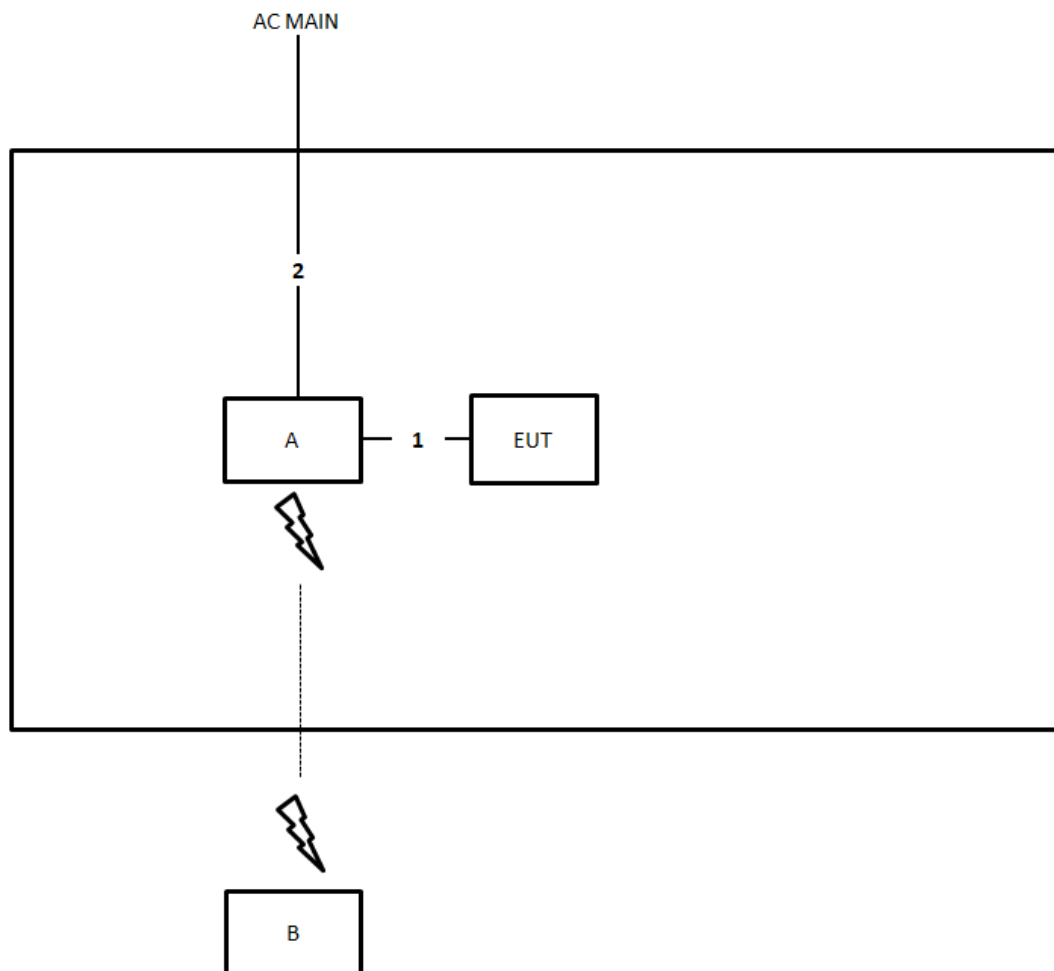
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	Latitude 6430u	N/A
B	WLAN AP	Netgear	R7500	PY314300288

1.4 EUT Operation during Test

During the test, executed the test program to control the EUT continuously transmit RF signal.

1.5 Test Setup Diagram



Test Setup Diagram - Transmitter Spurious Emissions


Item	Connection	Shielded	Length
1	USB cable	Yes	1.2m
2	Power cable	No	3.6m



1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15.255
- ♦ ANSI C63.10-2013 Section 9. "Procedures for testing millimeter-wave systems"

1.7 Testing Location

Testing Location		
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test Site No.		
CO01-CB	03CH05-CB	TH01-CB

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086B with Industry Canada.



2 Test Configuration of Equipment under Test

2.1 Test Channel Frequencies

Low Channel (GHz)	Middle Channel (GHz)	High Channel (GHz)
58.32	60.48	62.64

2.2 Conformance Tests and Related Test Frequencies

Test Item	Test Frequencies (GHz)
AC Power Conducted Emissions	60.48
Occupied Bandwidth	58.32, 60.48, 62.64
EIRP Power	58.32, 60.48, 62.64
Peak Conducted Power	58.32, 60.48, 62.64
Transmitter Spurious Emissions (below 1 GHz)	60.48
Transmitter Spurious Emissions (1 GHz-40 GHz)	58.32, 60.48, 62.64
Transmitter Spurious Emissions (above 40 GHz)	58.32, 60.48, 62.64
Frequency Stability	58.32, 60.48, 62.64

Test Mode:

For AC Power Conducted Emissions:

Test Mode 1: CTX-Supplied power by NB

Test Mode 2: CTX-Supplied power by Adapter

Mode 1 is the worst case, so it was selected to record in this test report.

For Transmitter Spurious Emissions (below 1 GHz):

The EUT was performed at X axis, Y axis and Z axis position for Transmitter Spurious Emissions intentional above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.

Test Mode 1: CTX-EUT in Y axis + Supplied power by NB

Test Mode 2: CTX-EUT in Y axis + Supplied power by Adapter

Mode 1 is the worst case, so it was selected to record in this test report.

For Other Test Items:

The EUT was performed at X axis, Y axis and Z axis position for Transmitter Spurious Emissions intentional above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.

Test Mode: CTX-EUT in Y axis



2.3 Far Field Boundary Calculations

The far-field boundary is given as:

$$\text{far field} = (2 * L^2) / \lambda$$

where:

L = Largest Antenna Dimension, including the reflector, in meters

λ = wavelength in meters

Far Field (m)				
Test Frequency (GHz)	L (m)	Lambda (m)	d(Far Field) (m)	d(Far Field) (cm)
58.32	0.015	0.0051440	0.087	8.75
60.48	0.015	0.0049603	0.091	9.07
62.64	0.015	0.0047893	0.094	9.40



3 Transmitter Test Result

3.1 AC Power Conducted Emissions

3.1.1 Limit of AC Power Conducted Emissions

AC Power Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note: * Decreases with the logarithm of the frequency.		

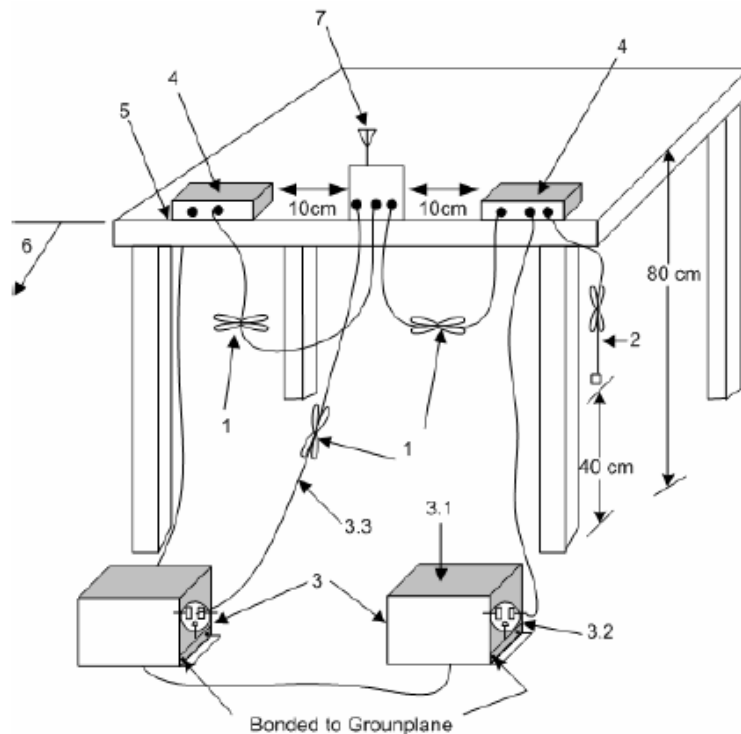
3.1.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.1.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 6.2.

3.1.4 Test Setup



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.

2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.

3.1—All other equipment powered from additional LISN(s).

3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.

3.3—LISN at least 80 cm from nearest part of EUT chassis.

4—Non-EUT components of EUT system being tested.

5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.

6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

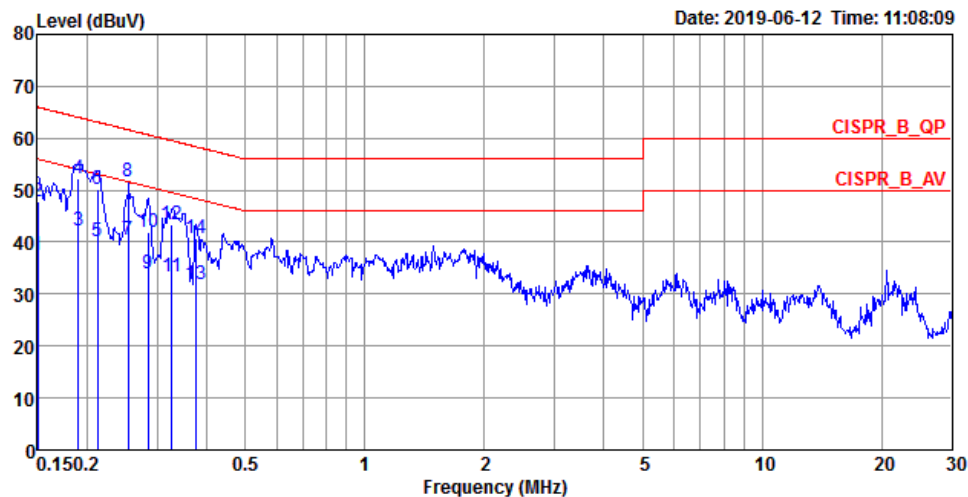


3.1.5 Test Result of AC Power Conducted Emissions

Test Conditions	see ANSI C63.10, clause 5.11
Test Setup	see ANSI C63.10, clause 6.2.3
NOTE 1: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes. If equipment having different transmit operating modes (see test report clause 1.1.2), the measurements are uninfluenced by different transmit operating modes, may not need to be repeated for all the operating modes. Similar, if the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.12 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worse case combination to be used for the conformance testing. NOTE 2: ">20dB" means the tables in this clause should only list values of spurious emissions that exceed the level of 20 dB below the applicable limit, see ANSI C63.4, clause 10.1.8.1.	



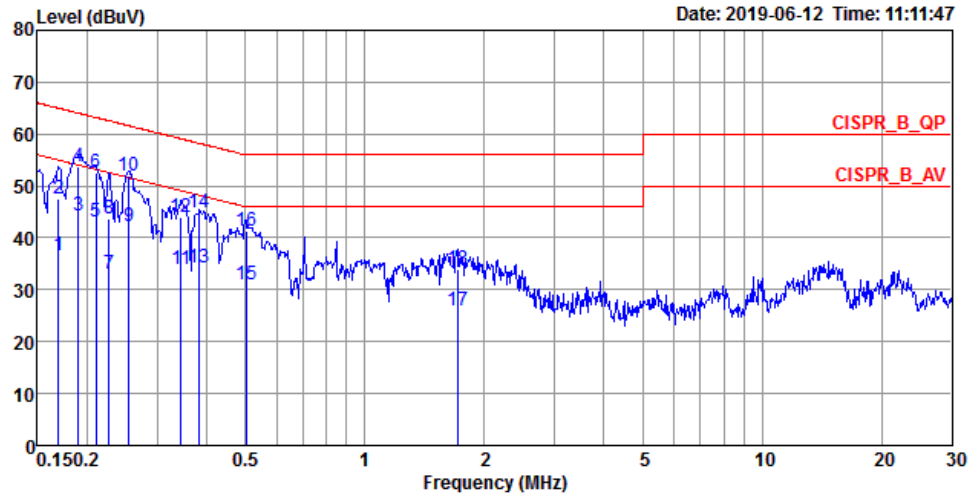
Temp.	22.4~23.1°C	Humidity	67~68%
Test Engineer	Ryo Fan	Phase	Line
Configuration	CTX	Test Mode	Mode 1



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	37.55	-18.45	56.00	27.65	9.84	0.06	Average	LINE
2	0.1500	47.96	-18.04	66.00	38.06	9.84	0.06	QP	LINE
3	0.1904	42.11	-11.91	54.02	32.20	9.85	0.06	Average	LINE
4	0.1904	52.33	-11.69	64.02	42.42	9.85	0.06	QP	LINE
5	0.2128	40.10	-13.00	53.10	30.19	9.85	0.06	Average	LINE
6	0.2128	50.09	-13.01	63.10	40.18	9.85	0.06	QP	LINE
7	0.2535	40.43	-11.21	51.64	30.51	9.86	0.06	Average	LINE
8	0.2535	51.76	-9.88	61.64	41.84	9.86	0.06	QP	LINE
9	0.2848	34.08	-16.60	50.68	24.16	9.86	0.06	Average	LINE
10	0.2848	41.78	-18.90	60.68	31.86	9.86	0.06	QP	LINE
11	0.3268	33.48	-16.05	49.53	23.56	9.86	0.06	Average	LINE
12	0.3268	43.38	-16.15	59.53	33.46	9.86	0.06	QP	LINE
13	0.3751	31.76	-16.63	48.39	21.83	9.87	0.06	Average	LINE
14	0.3751	40.82	-17.57	58.39	30.89	9.87	0.06	QP	LINE



Temp.	22.4~23.1°C	Humidity	67~68%
Test Engineer	Ryo Fan	Phase	Neutral
Configuration	CTX	Test Mode	Mode 1



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1694	36.51	-18.48	54.99	26.62	9.83	0.06	Average	NEUTRAL
2	0.1694	47.62	-17.37	64.99	37.73	9.83	0.06	QP	NEUTRAL
3	0.1904	44.35	-9.67	54.02	34.46	9.83	0.06	Average	NEUTRAL
4	0.1904	53.87	-10.15	64.02	43.98	9.83	0.06	QP	NEUTRAL
5	0.2106	43.06	-10.12	53.18	33.17	9.83	0.06	Average	NEUTRAL
6	0.2106	52.68	-10.50	63.18	42.79	9.83	0.06	QP	NEUTRAL
7	0.2268	33.15	-19.42	52.57	23.26	9.83	0.06	Average	NEUTRAL
8	0.2268	43.55	-19.02	62.57	33.66	9.83	0.06	QP	NEUTRAL
9	0.2548	42.13	-9.47	51.60	32.23	9.84	0.06	Average	NEUTRAL
10	0.2548	51.86	-9.74	61.60	41.96	9.84	0.06	QP	NEUTRAL
11	0.3446	33.92	-15.17	49.09	24.01	9.85	0.06	Average	NEUTRAL
12	0.3446	43.85	-15.24	59.09	33.94	9.85	0.06	QP	NEUTRAL
13	0.3832	34.16	-14.05	48.21	24.25	9.85	0.06	Average	NEUTRAL
14	0.3832	44.94	-13.27	58.21	35.03	9.85	0.06	QP	NEUTRAL
15	0.5020	30.98	-15.02	46.00	21.05	9.86	0.07	Average	NEUTRAL
16	0.5020	41.27	-14.73	56.00	31.34	9.86	0.07	QP	NEUTRAL
17	1.7071	25.99	-20.01	46.00	15.98	9.90	0.11	Average	NEUTRAL
18	1.7071	34.08	-21.92	56.00	24.07	9.90	0.11	QP	NEUTRAL



3.2 Occupied Bandwidth

3.2.1 Limit of Occupied Bandwidth

6dBc Bandwidth (see Note 1)	None
99% Occupied Bandwidth (see Note 2)	None
NOTE 1: The 6dBc bandwidth is the frequency bandwidth of the signal power at the -6 dBc points when measured with a 100 kHz resolution bandwidth. These measurements shall also be performed at normal test conditions.	
NOTE 2: The 99% occupied bandwidth is the frequency bandwidth of the signal power at the 99% channel power of occupied bandwidth when resolution bandwidth should be approximately 1 % to 5 % of the occupied bandwidth (OBW). These measurements shall also be performed at normal test conditions.	

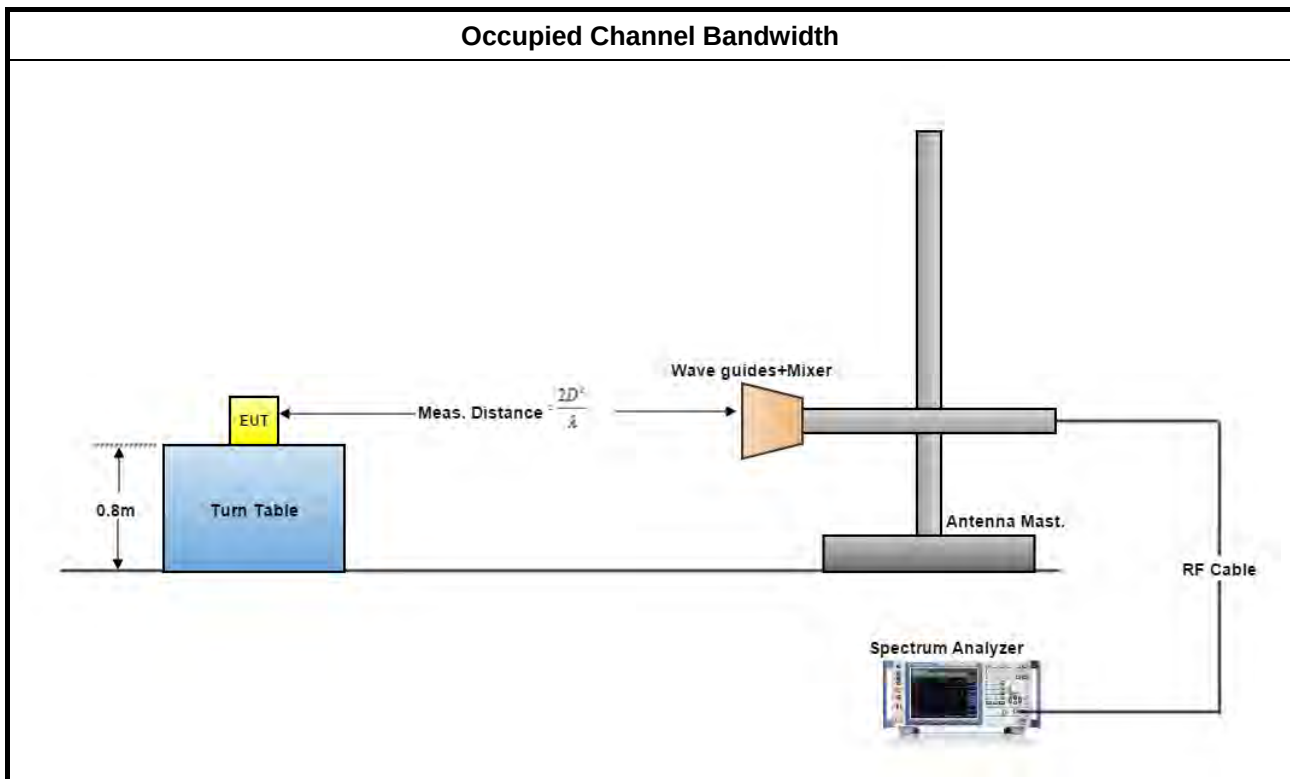
3.2.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.2.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clauses 6.9.2.

3.2.4 Test Setup



**3.2.5 Test Result of Occupied Bandwidth**

Test Conditions	see ANSI C63.10, clause 5.11
Test Setup	see ANSI C63.10, clause 6.9.2
NOTE: If equipment having different transmit operating modes (see test report clause 1.1.2), the measurements are uninfluenced by different transmit operating modes, may not need to be repeated for all the operating modes. Similar, if the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.11 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worse case combination to be used for the conformance testing. Refer as ANSI C63.10, clause 15, observe and record with plotted graphs or photographs the worst-case (i.e., widest) occupied bandwidth produced by these different modulation sources.	

Temp.	22~24°C	Humidity	55~60%
Test Engineer	Welson Chen		

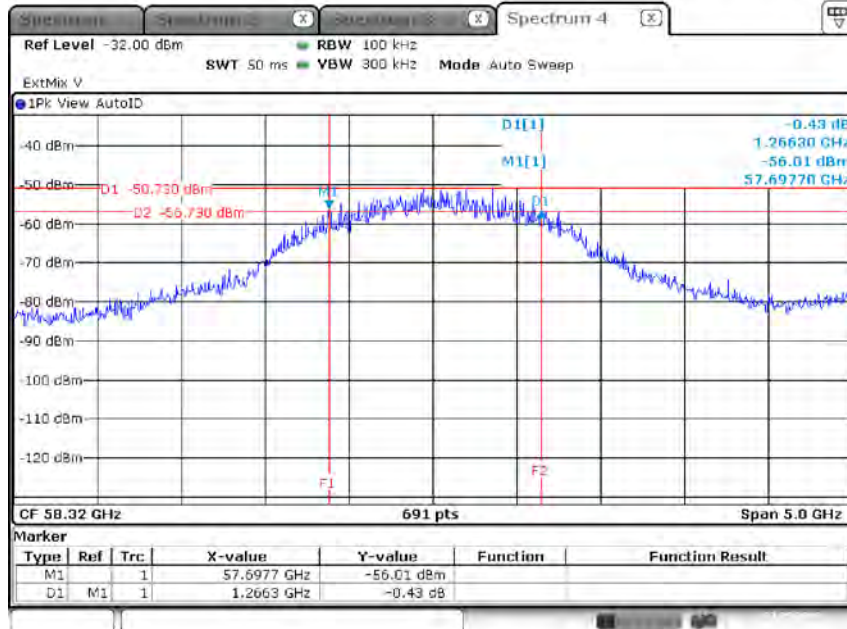
Test Freq. (GHz)	6 dBc Bandwidth (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
58.32	1266.30	2402.32	N/A
60.48	1374.80	2677.28	N/A
62.64	1664.30	2409.55	N/A



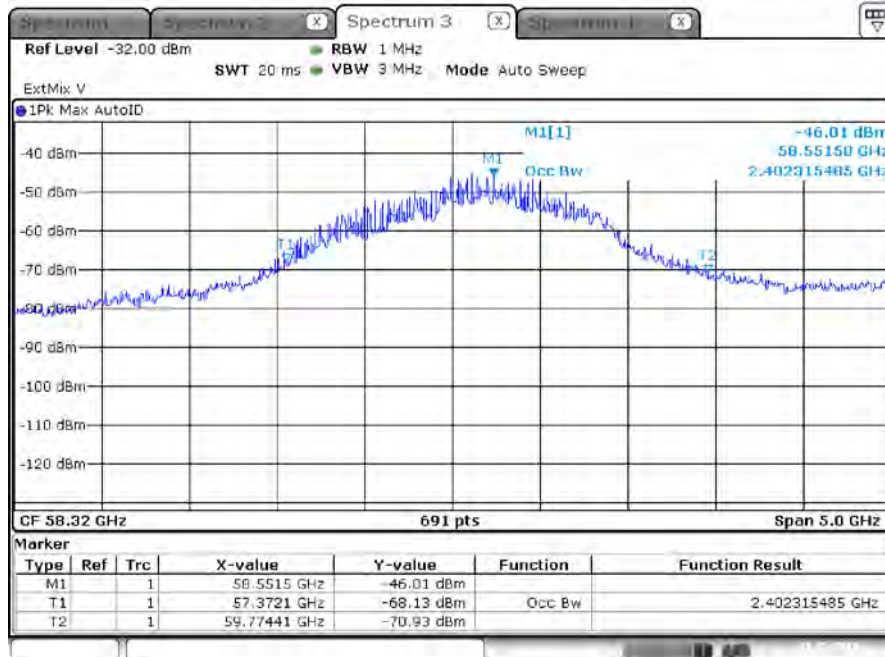
3.2.5.1 Bandwidth Plots

Test Frequency: 58.32 GHz

6 dBc Bandwidth



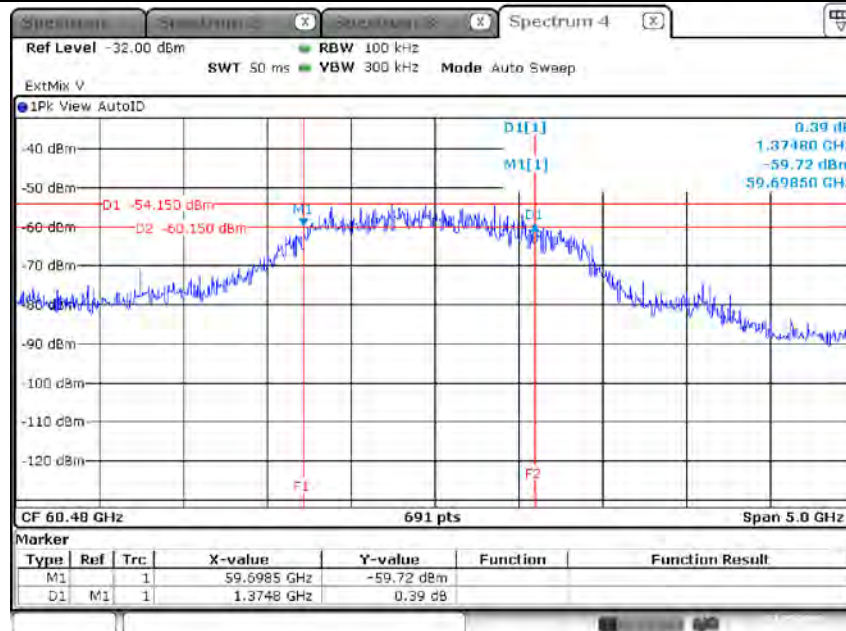
Occupied Bandwidth



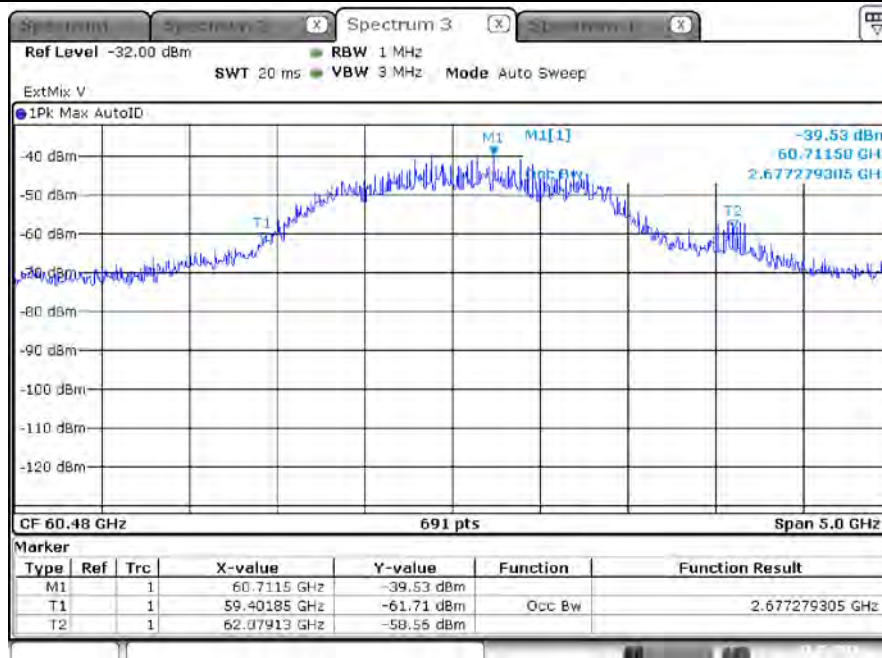


Test Frequency: 60.48 GHz

6 dBc Bandwidth



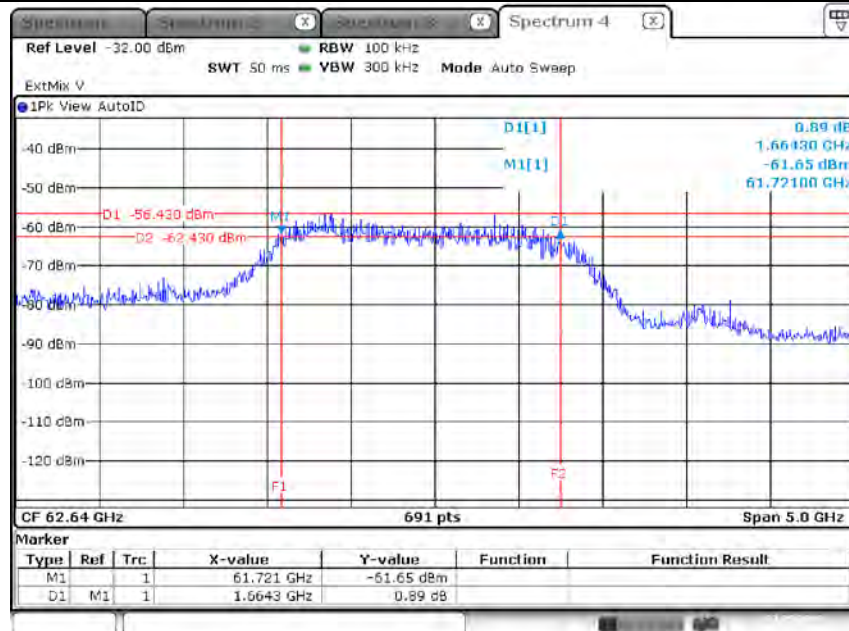
Occupied Bandwidth



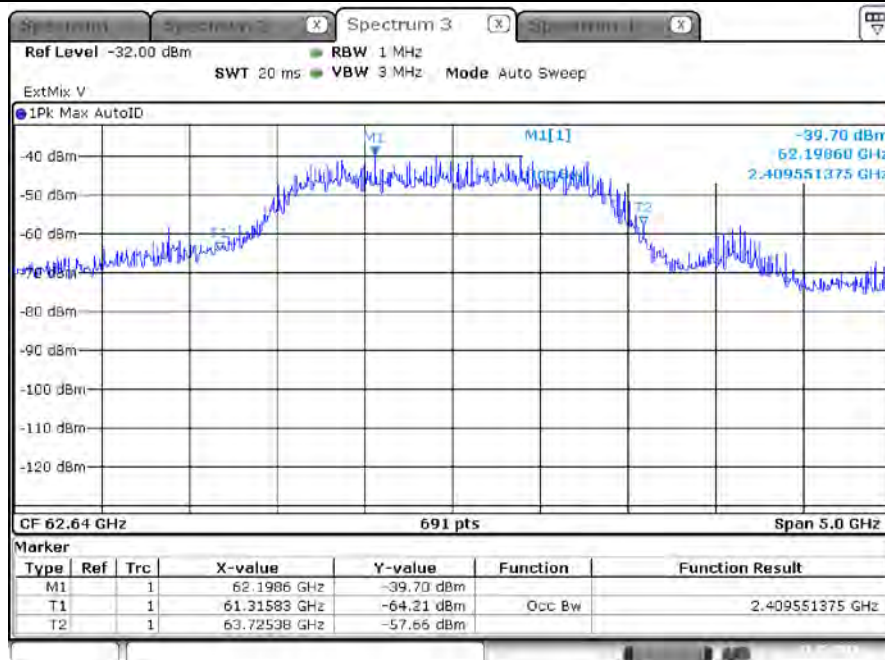


Test Frequency: 62.64 GHz

6 dBc Bandwidth



Occupied Bandwidth





3.3 EIRP Power

3.3.1 Limit of EIRP Power

EIRP Power Limit		
Use Condition	EIRP Average Power	EIRP Peak Power
Fixed field disturbance sensors at within the frequency band 61-61.5GHz	40 dBm	43 dBm
Fixed field disturbance sensors at outside of the band 61-61.5GHz	10 dBm	13 dBm
Except fixed field disturbance sensors at 61-61.5GHz	N/A	10 dBm
Except outdoor fixed Point to Point	40 dBm	43 dBm
Outdoor fixed Point to Point	82 dBm	85 dBm
Note: For fixed point-to-point transmitters located outdoors, the average power of any emission shall not exceed 82 dBm, and shall be reduced by 2 dB for every dB that the antenna gain is less than 51 dBi. The peak power of any emission shall not exceed 85 dBm, and shall be reduced by 2 dB for every dB that the antenna gain is less than 51 dBi.		

NOTE: For the applicable limit, see FCC 15.255 (c)

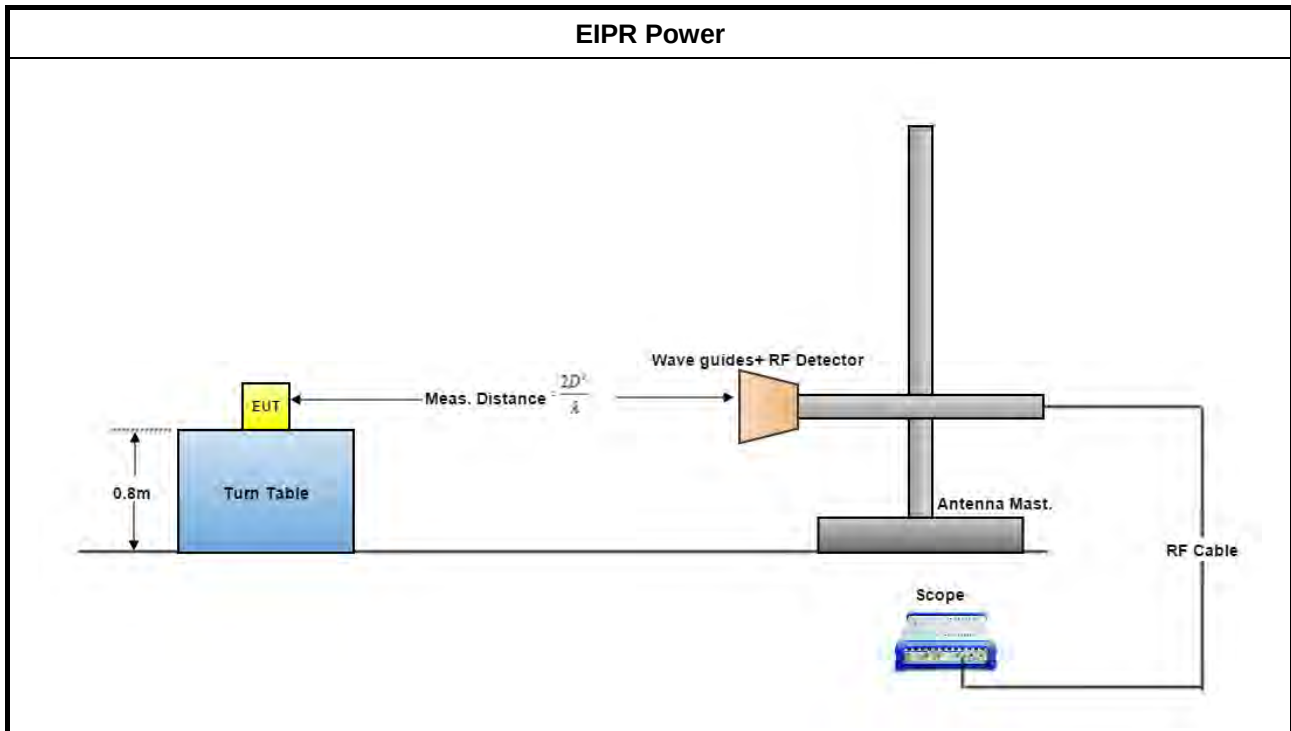
3.3.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.3.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013 clause 9.3 & 9.5.

3.3.4 Test Setup



3.3.5 Test Result of EIRP Power

Test Conditions see ANSI C63.10, clause 5.11 & clause 9

Test Setup see ANSI C63.10, clause 9.11

NOTE: If the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.11 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worst case combination to be used for the conformance testing.

**3.3.5.1 Test Result of EIRP Power**

Temp.	22~24℃	Humidity	55~60%
Test Engineer	Welson Chen	Test Distance	0.5 m
Test Date	May 27, 2019~Jun. 10, 2019		

Test Freq. (GHz)	Rx Gain (dBi)	DSO (mV)		Power Measured (dBm)		E _{Meas} (dBuV/m)		EIRP (dBm)		EIRP Limit (dBm) (note 1)	
		Peak	AV	Peak	AV	Peak	AV	Peak	AV	Peak	AV
58.32	23.6	37.24	4.74	-17.33	-27.46	131.64	121.51	20.82	10.69	43	40
60.48	23.6	71.64	9.16	-13.59	-23.36	135.70	125.93	24.88	15.11	43	40
62.64	23.6	47.82	5.43	-16.09	-26.79	133.50	122.80	22.68	11.98	43	40

The measured power level is converted to EIRP using the Friis equation:

For radiated emissions, calculate the field strength (E) in dBμV/meter.

$$E = 126.8 - 20\log(\lambda) + P - G$$

where:

E : is the field strength of the emission at the measurement distance, in dBμV/m

P : is the power measured at the output of the test antenna, in dBm

λ: is the wavelength of the emission under investigation [300/fMHz], in m

G : is the gain of the test antenna, in dBi For radiated emissions, calculate the EIRP (dBm). If the measurement was performed in the far field, calculate the EIRP.

$$\text{EIRP} = E\text{-meas} + 20\log(d\text{-meas}) - 104.7$$

where:

EIRP : is the equivalent isotopically radiated power, in dBm

E-meas. : is the field strength of the emission at the measurement distance, in dBμV/m

d-meas. : is the measurement distance, in m

NOTE 1: For the applicable limit, see FCC 15.255 (c)

NOTE 2: The comparison method which replaces EUT with a signal generator is used to find the correct conversion factor between "DSO(mV)" & "Power Measured(dBm)".



3.4 Peak Conducted Power

3.4.1 Limit of Peak Conducted Power

Peak Conducted Power Limit	
6dBc Bandwidth	Peak Conducted Power (note 1)
> 100MHz	500mW
≤ 100MHz	500mW x (BW/100) (see note 2)
NOTE 1: For the applicable limit, see FCC 15.255(c)	
NOTE 2: BW= 6dB bandwidth (measured at RBW 100kHz)	

3.4.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.4.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 9.5

3.4.4 Test Result of Peak Conducted Power

Test Conditions	see ANSI C63.10, clause 5.11 & clause 9
Test Setup	see ANSI C63.10, clause 9.11
NOTE: If the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.11 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worst case combination to be used for the conformance testing.	

**3.4.4.1 Peak Conducted Power**

Temp.	22~24℃	Humidity	55~60%
Test Engineer	Welson Chen	Test Date	May 27, 2019~Jun. 10, 2019

Test Freq. (GHz)	EIRP (dBm)	Max. Ant. Gain (dBi)	Peak Power (dBm) (note1)	Peak Power (mW)	6dBc BW (MHz) (note2)	Peak Power Limit (mW) (note3)
58.32	20.82	10.5	10.32	10.773	1266.30	500.00
60.48	24.88	10.5	14.38	27.411	1374.80	500.00
62.64	22.68	10.5	12.18	16.535	1664.30	500.00

NOTE 1: Because EUT used for the integral antenna without temporary RF connector provided. Therefore peak conducted power is equal to EIRP power subtract the antenna gain.

NOTE 2: For the 6dBc bandwidth, see test report clause 3.2.5.

NOTE 3: For the applicable limit, see FCC 15.255(c)

NOTE 4: For radiated emission measurements, calculate conducted transmitter output power P(cond)(dBm)

$$P(\text{cond}) = \text{EIRP} - G(\text{dBi})$$

where:

G(dBi) is gain of EUT antenna.

3.5 Transmitter Spurious Emissions

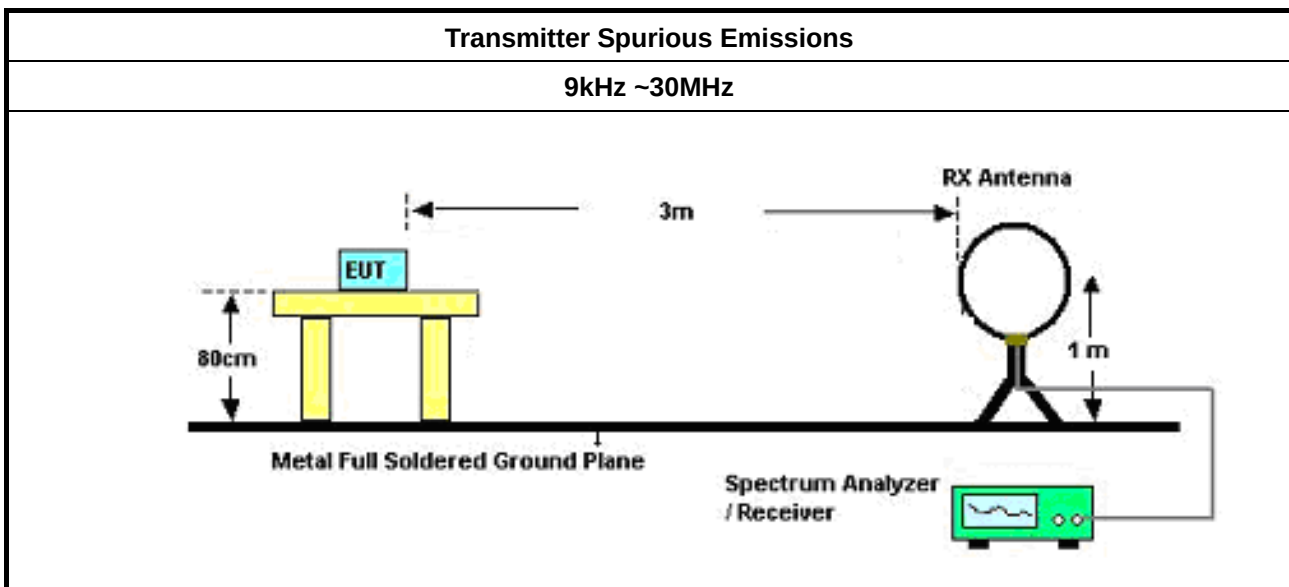
3.5.1 Limit of Transmitter Spurious Emissions

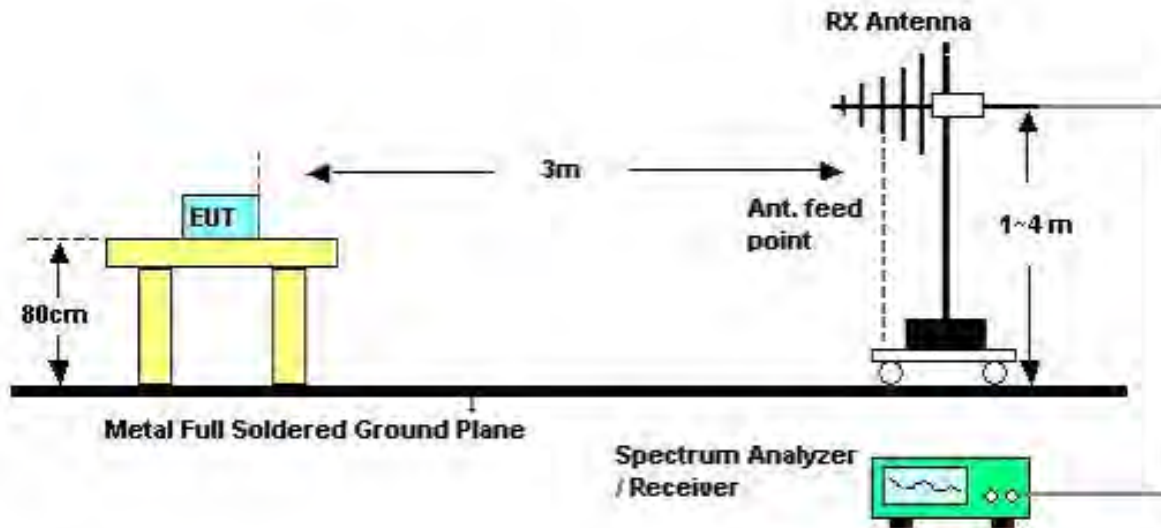
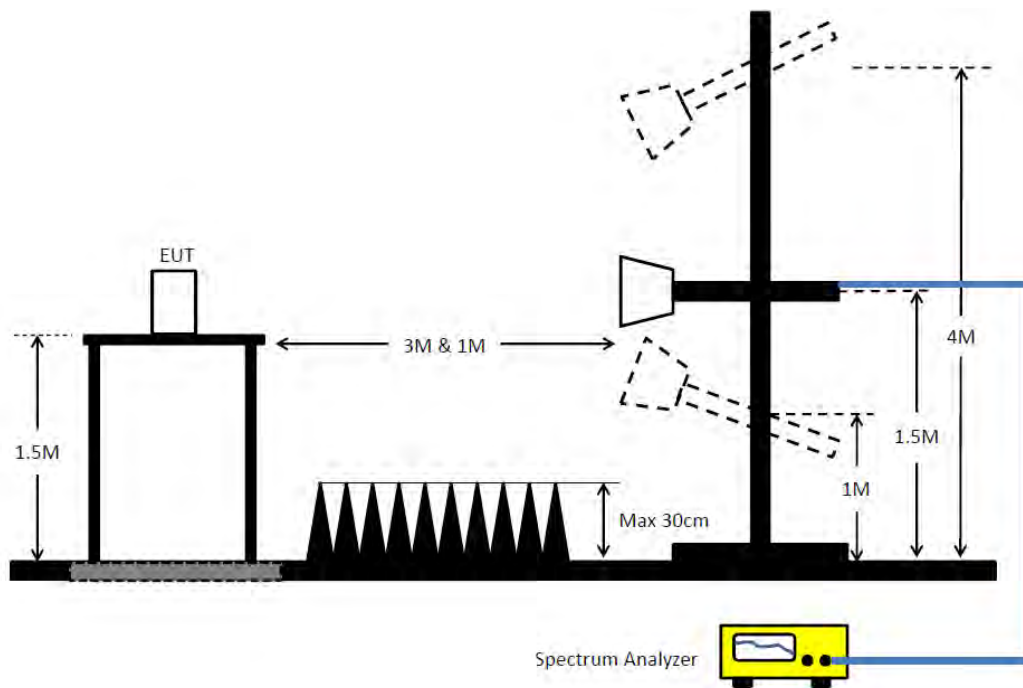
Frequency Range	Limit
Radiated emissions below 40 GHz	FCC 15.209
Radiated emissions above 40 GHz – 200GHz	90 pW/cm ² @ 3 m (Equivalent EIRP 102 µW, -9.91dBm)
NOTE 1: For the applicable limit, see FCC 15.255(d)	
NOTE 2: Spurious emissions shall not exceed the level of the fundamental emission.	

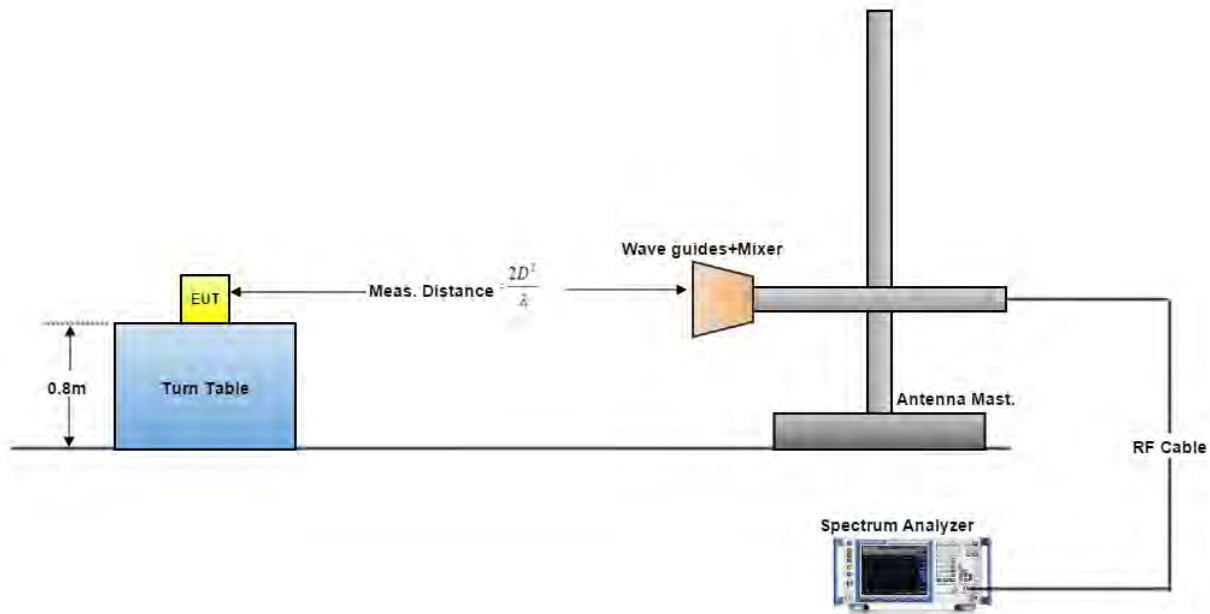
3.5.2 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clause 9.12

3.5.3 Test Setup



30MHz~1GHz

1GHz ~40GHz


Above 40GHz


A measuring distance of at 3 m shall be used for measurements at frequencies up to 15 GHz. For frequencies above 15 GHz, any suitable measuring distance may be used. The measurement distance is chosen up to far field distance, depending on the test system noise floor for detecting spurious emission signals. Then above 15 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from spec. distance (3 m) to measurement distance. Distance extrapolation factor = $20 \log (\text{spec. distance [3 m]} / \text{measurement distance [N m]})$ (dB) .The measurements described in ANSI C63.10, clause 7.8.6. If the emission cannot be detected at 1 m, reduce the RBW to increase system sensitivity. Note the value. If the emission still cannot be detected, move the horn closer to the EUT, noting the distance at which a measurement is made.

3.5.4 Test Result of Transmitter Spurious Emissions

Test Conditions see ANSI C63.10, clause 5.11 & clause 9

Test Setup see ANSI C63.10, clause 9.12 、 9.13

NOTE: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes.



3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.5.6 Test Result of Transmitter Spurious Emissions (Below 30MHz)

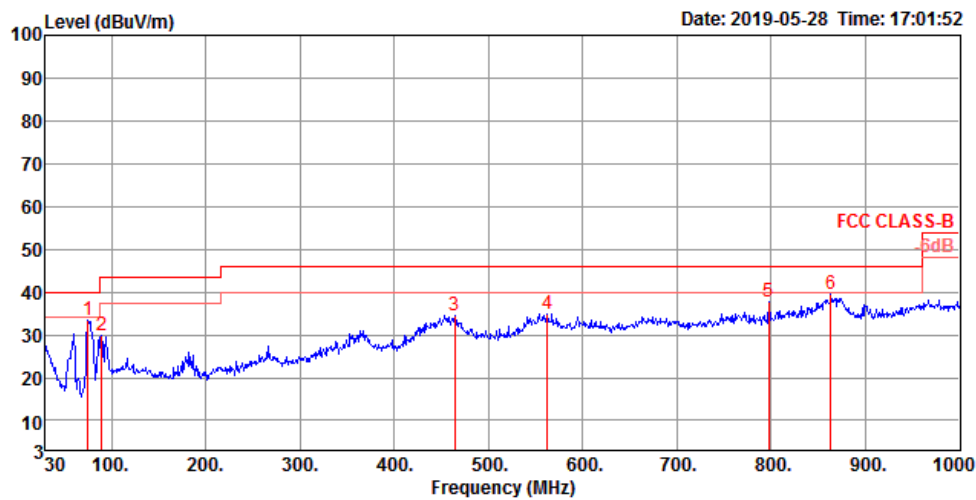
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

**3.5.7 Test Result of Transmitter Spurious Emissions**

Temp.	22~24℃	Humidity	55~60%
Test Engineer	Welson Chen	Test Distance	3 m
Test Range	30 MHz – 1000 MHz	Test Configuration	CTX
Test Mode	Mode 1		

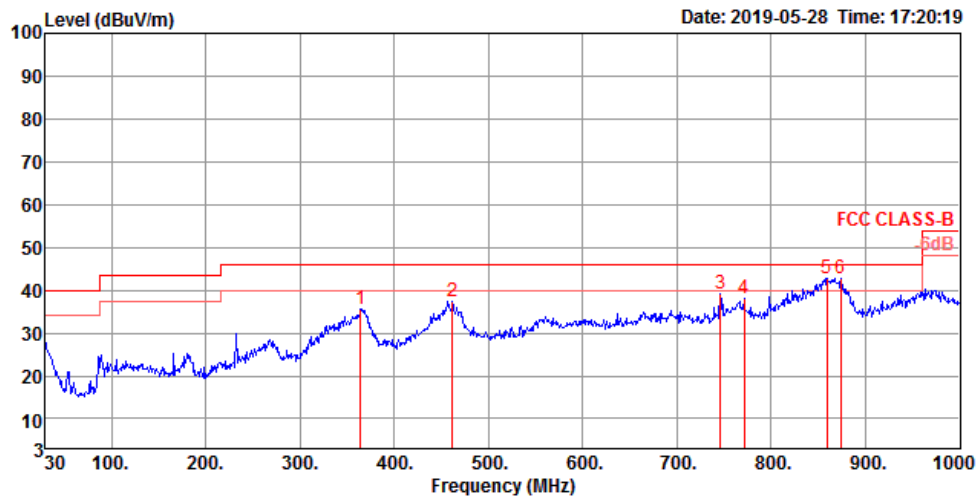
Vertical



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	74.62	33.47	40.00	-6.53	52.19	1.73	12.03	32.48	200	202	Peak	VERTICAL
2	89.17	29.77	43.50	-13.73	45.80	1.90	14.46	32.39	150	207	Peak	VERTICAL
3	464.56	34.48	46.00	-11.52	39.71	4.13	22.79	32.15	125	148	Peak	VERTICAL
4	562.53	34.82	46.00	-11.18	38.21	4.52	24.52	32.43	100	172	Peak	VERTICAL
5	797.27	37.79	46.00	-8.21	39.08	5.36	25.65	32.30	100	325	Peak	VERTICAL
6	863.23	39.34	46.00	-6.66	39.42	5.57	26.07	31.72	125	296	Peak	VERTICAL



Horizontal

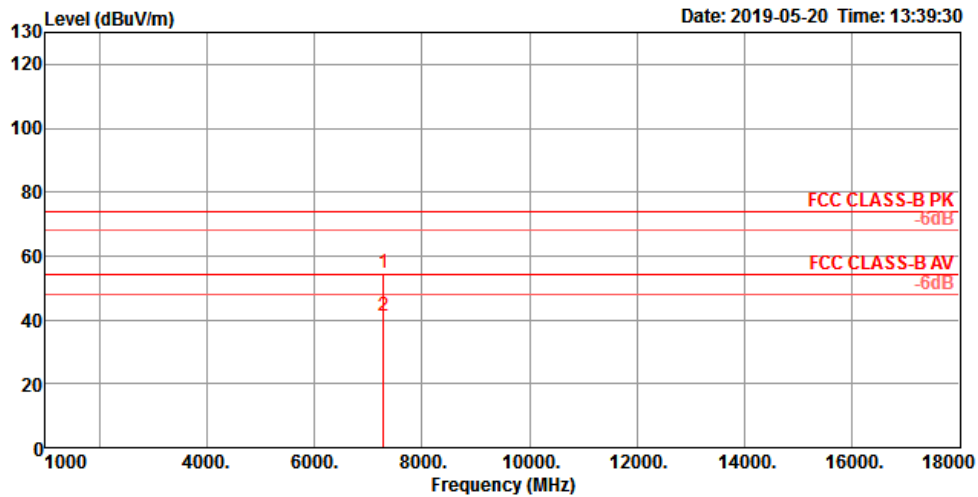


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	364.65	35.59	46.00	-10.41	43.72	3.66	20.55	32.34	100	222 Peak	HORIZONTAL
2	461.65	37.26	46.00	-8.74	42.55	4.11	22.74	32.14	100	175 Peak	HORIZONTAL
3	745.86	39.20	46.00	-6.80	40.78	5.19	25.33	32.10	200	54 Peak	HORIZONTAL
4	771.08	38.14	46.00	-7.86	39.51	5.27	25.53	32.17	100	217 Peak	HORIZONTAL
5	859.35	42.90	46.00	-3.10	43.01	5.56	26.05	31.72	100	202 Peak	HORIZONTAL
6	873.90	42.91	46.00	-3.09	42.91	5.60	26.13	31.73	100	186 Peak	HORIZONTAL



Temp.	22~24°C	Humidity	55~60%
Test Engineer	Welson Chen	Test Distance	3 m
Test Range	1 GHz – 18 GHz	Test Freq. (GHz)	58.32

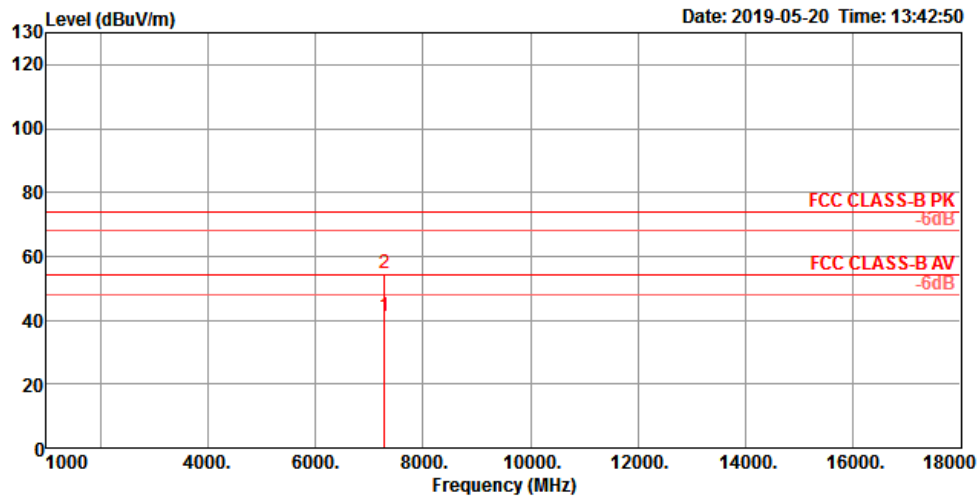
Vertical



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	7289.62	54.76	74.00	-19.24	42.34	8.67	37.30	33.55	149	15	Peak	VERTICAL
2	7289.83	41.24	54.00	-12.76	28.82	8.67	37.30	33.55	149	15	Average	VERTICAL



Horizontal

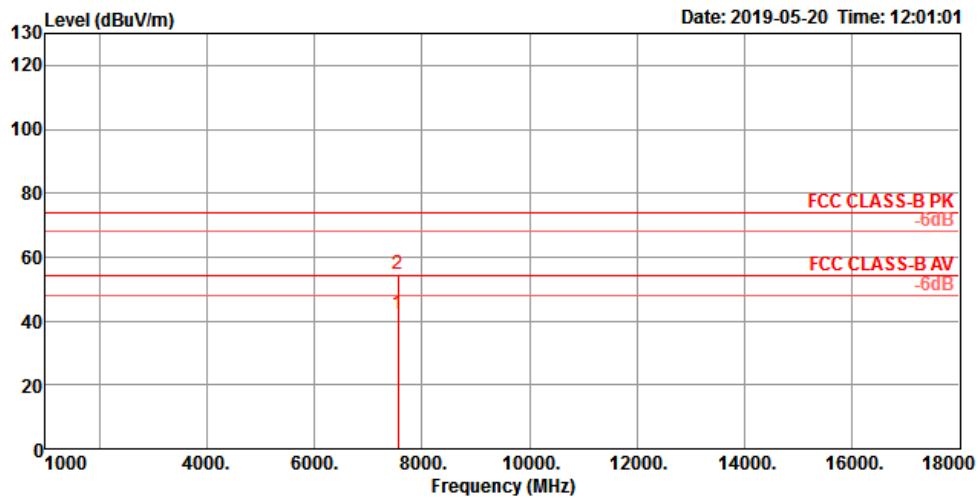


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	7289.30	41.21	54.00	-12.79	28.79	8.67	37.30	33.55	153	178	Average	HORIZONTAL
2	7289.82	54.50	74.00	-19.50	42.08	8.67	37.30	33.55	153	178	Peak	HORIZONTAL



Temp.	22~24℃	Humidity	55~60%
Test Engineer	Welson Chen	Test Distance	3 m
Test Range	1 GHz – 18 GHz	Test Freq. (GHz)	60.48

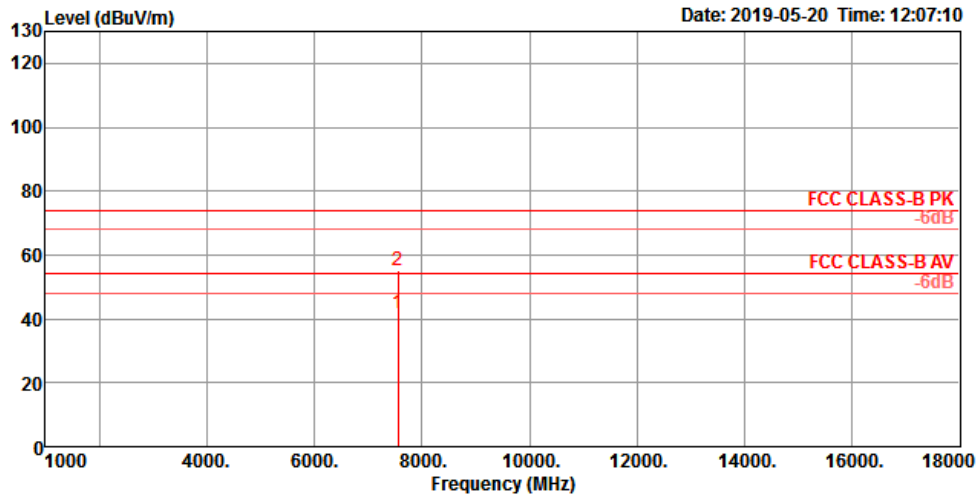
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	7559.00	42.08	54.00	-11.92	29.53	8.79	37.50	33.74	150	315 Average	VERTICAL
2	7560.56	54.86	74.00	-19.14	42.31	8.79	37.50	33.74	150	315 Peak	VERTICAL



Horizontal

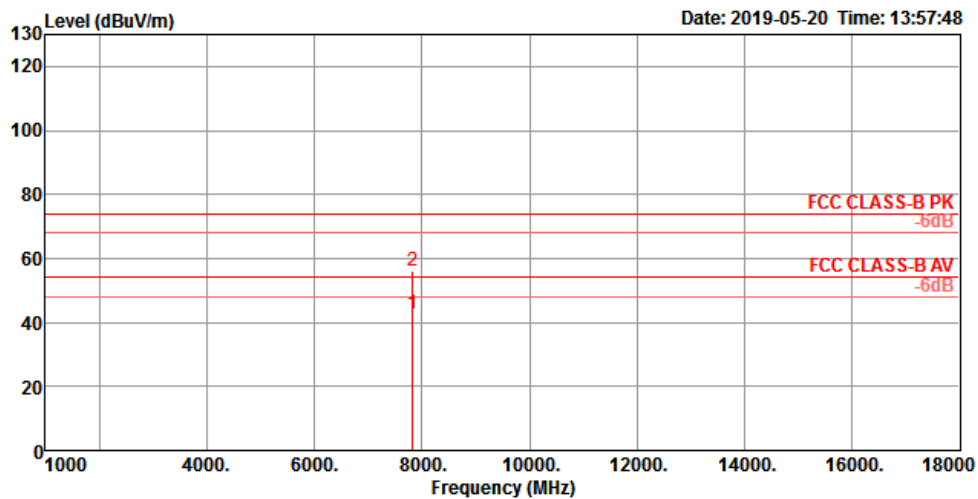


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	7560.12	41.85	54.00	-12.15	29.30	8.79	37.50	33.74	200	263	Average
2	7560.30	55.25	74.00	-18.75	42.70	8.79	37.50	33.74	200	263	Peak



Temp.	22~24°C	Humidity	55~60%
Test Engineer	Welson Chen	Test Distance	3 m
Test Range	1 GHz – 18 GHz	Test Freq. (GHz)	62.64

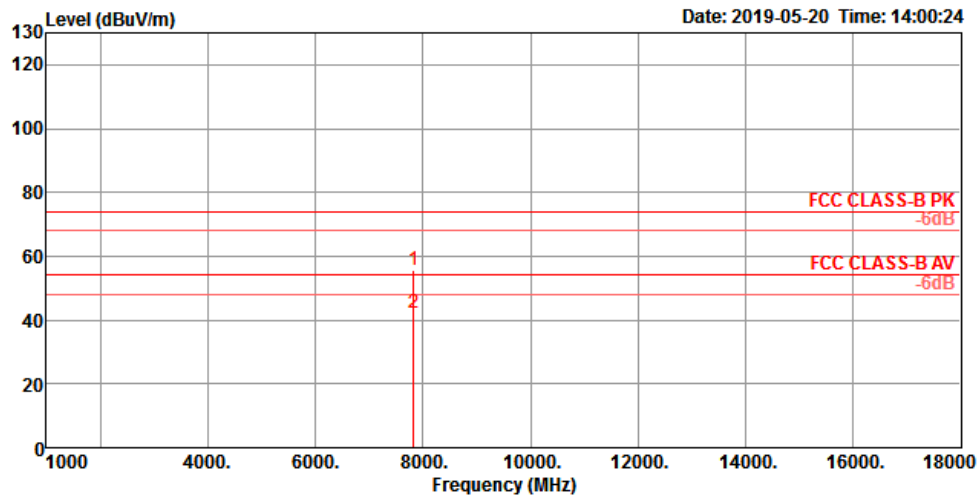
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	7830.34	42.49	54.00	-11.51	29.96	9.18	37.25	33.90	145	40	Average	VERTICAL
2	7830.82	56.21	74.00	-17.79	43.68	9.18	37.25	33.90	145	40	Peak	VERTICAL



Horizontal

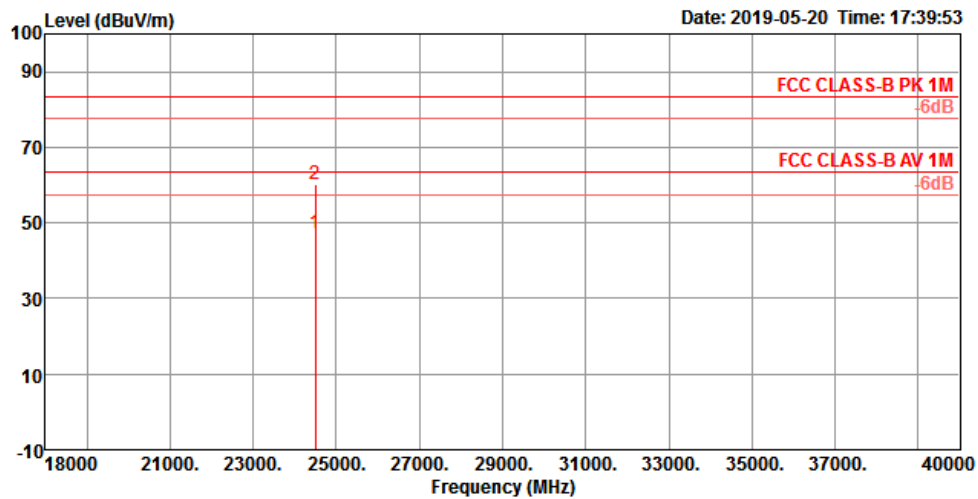


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	7829.22	55.73	74.00	-18.27	43.20	9.18	37.25	33.90	291	212	Peak
2	7829.57	42.44	54.00	-11.56	29.91	9.18	37.25	33.90	291	212	Average



Temp.	22~24°C	Humidity	55~60%
Test Engineer	Welson Chen	Test Distance	3 m
Test Range	18 GHz – 40 GHz	Test Freq. (GHz)	58.32

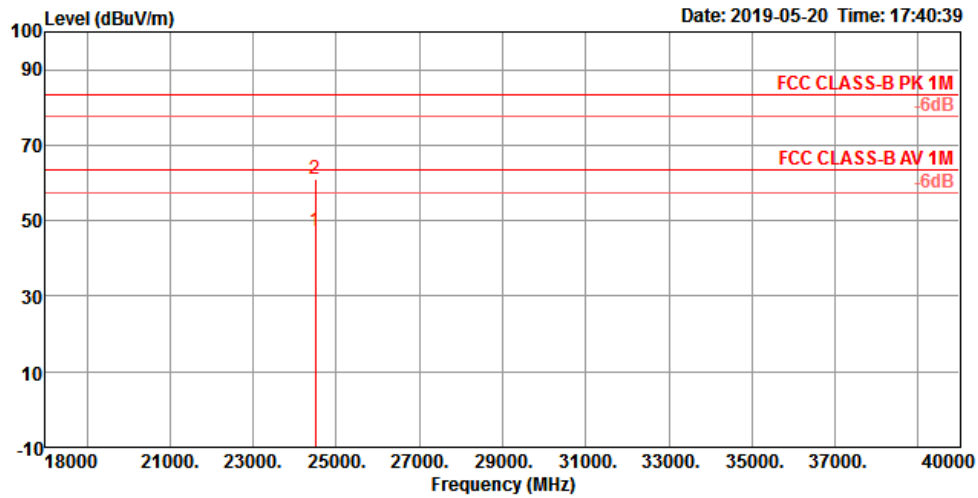
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	24499.16	47.39	63.54	-16.15	41.35	15.14	39.10	48.20	155	100	Average	VERTICAL
2	24500.06	60.29	83.54	-23.25	54.25	15.14	39.10	48.20	155	100	QP	VERTICAL



Horizontal



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	24499.88	47.15	63.54	-16.39	41.11	15.14	39.10	48.20	155	162	Average
2	24500.93	60.98	83.54	-22.56	54.94	15.14	39.10	48.20	155	162	Peak

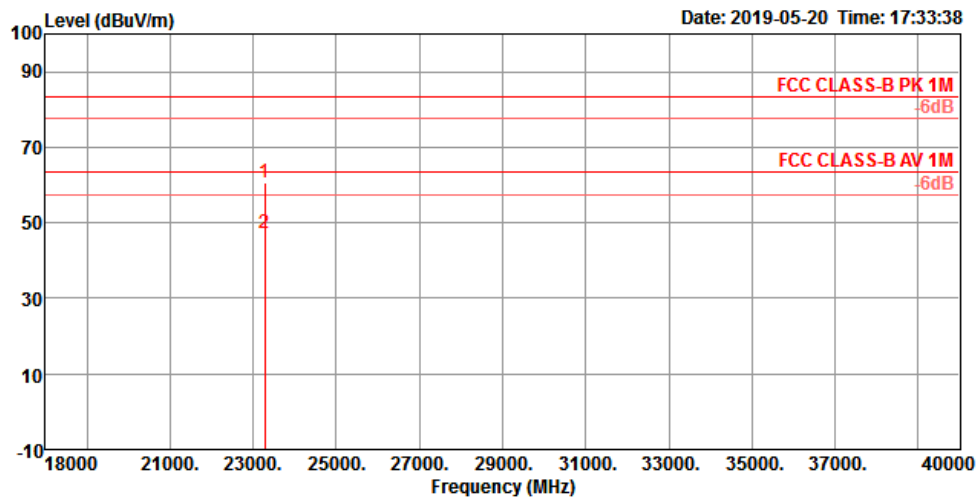


FCC RADIO TEST REPORT

Report No. : FR931316-01

Temp.	22~24°C	Humidity	55~60%
Test Engineer	Welson Chen	Test Distance	3 m
Test Range	18 GHz – 40 GHz	Test Freq. (GHz)	60.48

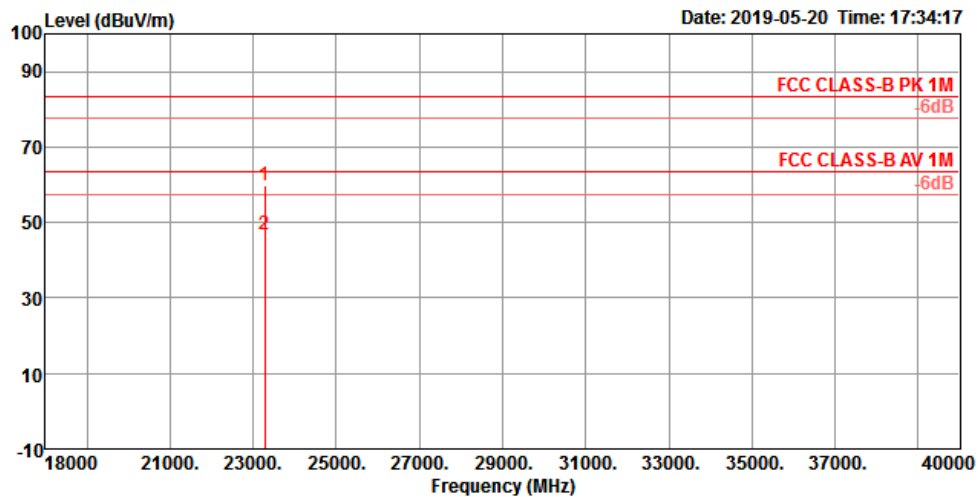
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	23279.70	60.47	83.54	-23.07	55.86	14.66	38.74	48.79	155	38 Peak	VERTICAL
2	23279.82	47.16	63.54	-16.38	42.55	14.66	38.74	48.79	155	38 Average	VERTICAL



Horizontal



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	23280.16	59.96	83.54	-23.58	55.35	14.66	38.74	48.79	155	84 Peak	HORIZONTAL
2	23280.40	46.87	63.54	-16.67	42.26	14.66	38.74	48.79	155	84 Average	HORIZONTAL

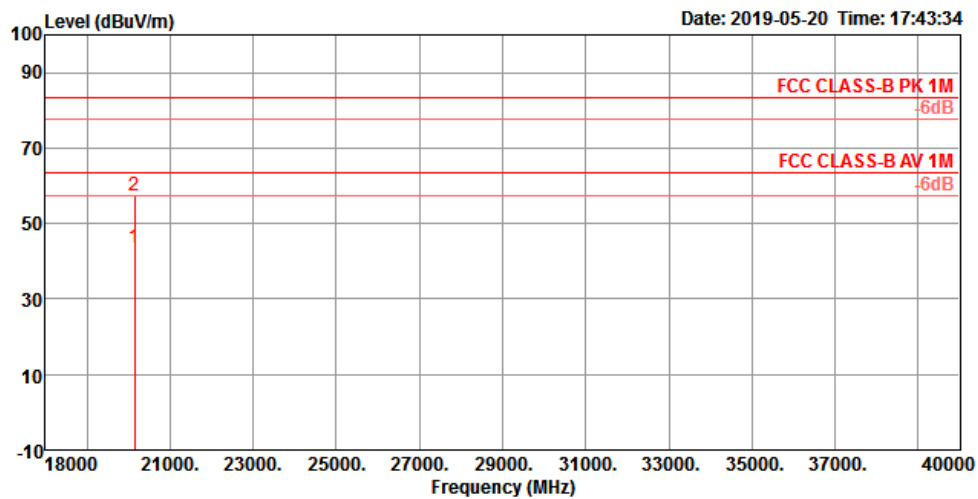


FCC RADIO TEST REPORT

Report No. : FR931316-01

Temp.	22~24°C	Humidity	55~60%
Test Engineer	Welson Chen	Test Distance	3 m
Test Range	18 GHz – 40 GHz	Test Freq. (GHz)	62.64

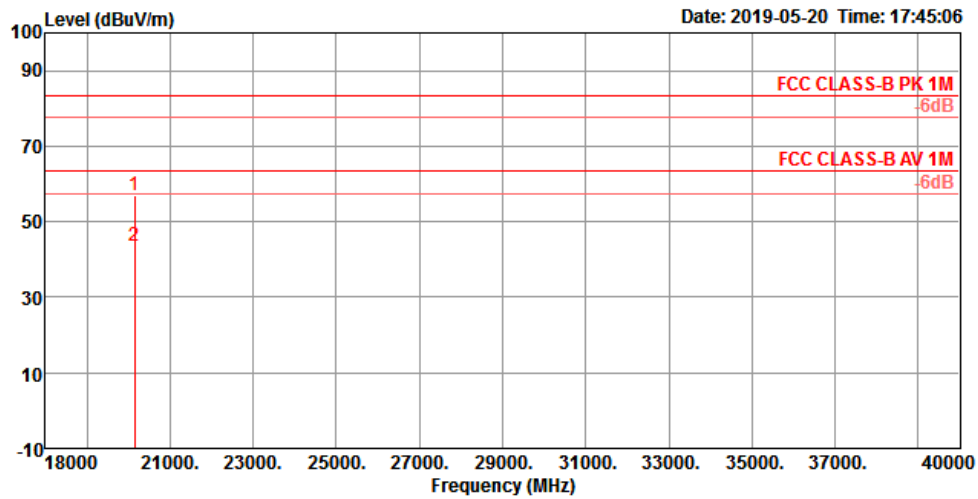
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	20144.32	43.71	63.54	-19.83	42.83	13.13	37.55	49.80	155	163	Average	VERTICAL
2	20144.49	57.46	83.54	-26.08	56.58	13.13	37.55	49.80	155	163	Peak	VERTICAL



Horizontal



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	20143.74	56.98	83.54	-26.56	56.10	13.13	37.55	49.80	155	153 Peak	HORIZONTAL
2	20144.07	43.61	63.54	-19.93	42.73	13.13	37.55	49.80	155	153 Average	HORIZONTAL



Temp.	22~24℃	Humidity	55~60%
Test Engineer	Welson Chen	Test Date	May 27, 2019~Jun. 10, 2019
Test Range	40GHz – 200GHz		

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
58.32	23.6	0.50	56.559	-72.97
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm²)	Limit (pW/cm²)	Test Result
-35.10	3	0.2733	90.00	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
60.48	23.6	0.50	50.056	-87.00
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm²)	Limit (pW/cm²)	Test Result
-50.19	3	0.0085	90.00	PASS

Test Frequency (GHz)	Rx Antenna Gain (dBi)	Measurement Distance (m)	Read Worse Frequency (GHz)	Read Level (dBm)
62.64	23.6	0.50	53.763	-85.18
EIRP (dBm)	Specification Distance (m)	Power Density (pW/cm²)	Limit (pW/cm²)	Test Result
-47.75	3	0.0148	90.00	PASS

Note:

$EIRP = Prx - Grx + \text{Free Space Path Loss} = Prx - Grx + 20\log(4\pi d/\lambda)^2$

Which

$Prx = \text{Read Level.}$

$Grx = \text{Rx Antenna Gain.}$

A distance factor is offset and the formula is $20\log(D1/D2)$

Which

$D1 = \text{Specification Distance}$

$D2 = \text{Measurement Distance}$

3.6 Frequency Stability

3.6.1 Limit of Frequency Stability

Frequency Stability	Limit
Refer as FCC 15.255(f) and ANSI C63.10-2013, clause 9.14	within the frequency bands
Note: These measurements shall also be performed at normal and extreme test conditions.	

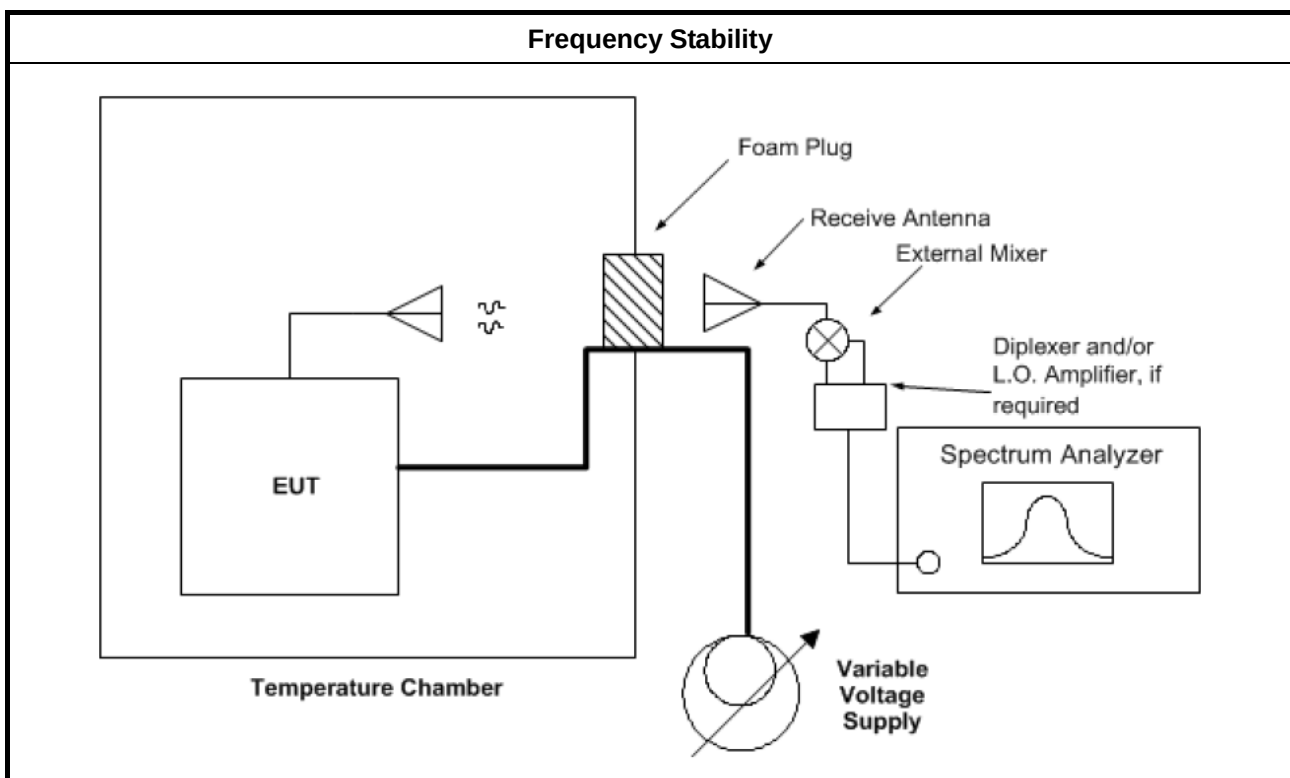
3.6.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.6.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2013, clauses 9.14.

3.6.4 Test Setup





3.6.5 Test Result of Frequency Stability

Test Conditions	see ANSI C63.10, clause 5.11 & clause 9
Test Setup	see ANSI C63.10, clause 9.14
NOTE: If equipment having different channel plan and nominal channel bandwidth modes (see test report clause 1.1.1), the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes.	

3.6.5.1 Frequency Stability with Respect to Ambient Temperature

Temp.	22~24°C	Humidity	55~60%
Test Engineer	Welson Chen	Test Date	May 27, 2019~Jun. 10, 2019

Test Temperature (°C)	Measured Frequency (MHz)	Delta Frequency (kHz)	Limit (±kHz)
-10	60480.0085	1.3000	Within band
0	60480.0048	-2.4000	Within band
10	60480.0079	0.7000	Within band
20	60480.0072	Reference	Within band
30	60480.0072	0.0000	Within band
40	60480.0072	0.0000	Within band
50	60479.984	-23.2000	Within band
55	60479.96	-47.2000	Within band

NOTE: The manufacturer's specified temperature range of -10 to 55°C.

**3.6.5.2 Frequency Stability When Varying Supply Voltage**

Temp.	22~24℃	Humidity	55~60%
Test Engineer	Welson Chen	Test Date	May 27, 2019~Jun. 10, 2019

Test Voltage (Vdc)	Measured Frequency (MHz)	Delta Frequency (kHz)	Limit (±kHz)
3.145	60480.0092	1.3000	Within band
3.7	60480.0079	Reference	Within band
4.255	60480.0082	0.3000	Within band



3.7 Operation Restriction and Group Installation

3.7.1 Limit of Operation Restriction and Group Installation

Item	Limit
Operation Restriction	Operation is not permitted for the following products: ♦ Equipment used on aircraft or satellites. (Refer as FCC 15.255 (a)) ♦ Field disturbance sensors, including vehicle radar systems, unless the field disturbance sensors are employed for fixed operation. (Refer as FCC 15.255 (a))
Group Installation	Operation is not permitted for the following products: ♦ External phase-locking (Refer as FCC 15.255 (h))

3.7.2 Result of Operation Restriction

Manufacturer declares that EUT will not been used on aircraft or satellites. Then user manual will include a statement to caution EUT is not permitted for used on aircraft or satellites. EUT is a wireless video area network (WVAN) for the connection of consumer electronic (CE) audio and video devices.

3.7.3 Result of Group Installation

The frequency, amplitude and phase of the transmit signal are set within the EUT. There are no external phase-locking inputs or any other means of combining two or more units together to realize a beam-forming array.



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESE & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 12, 2018	Oct. 11, 2019	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630S E	980287	1GHz ~ 26.5GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 03, 2018	Jul. 02, 2019	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+23	30MHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH05-CB)
Mixer	OML	M19HWA	U91113-1	40 ~ 60 GHz	Apr. 04 2019	Apr. 03, 2020	Radiation (03CH05-CB)
Mixer	OML	M15HWA	V91113-1	50 ~ 75 GHz	Apr. 04 2019	Apr. 03, 2020	Radiation (03CH05-CB)
Mixer	OML	M12HWA	E91113-1	60 ~ 90 GHz	Apr. 04 2019	Apr. 03, 2020	Radiation (03CH05-CB)
Mixer	OML	M08HWA	F91113-1	90 ~ 140 GHz	Apr. 04 2019	Apr. 03, 2020	Radiation (03CH05-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Mixer	OML	M05HW/A	G91113-1	140 ~ 220 GHz	Apr. 04 2019	Apr. 03, 2020	Radiation (03CH05-CB)
Detector	Millitech	DET-15-RPF W0	#A18185(074)	50 ~ 75 GHz	Jan. 29, 2018*	Jan. 29, 2020*	Radiation (03CH05-CB)
Pico Scope	Pico	Pico Scope 6402C	CX372/002	N/A	Jul. 13, 2018	Jul. 12, 2019	Radiation (03CH05-CB)
Standard Horn Antenna	Custom Microwave	M19RH	U91113-A	40 ~ 60 GHz	N.C.R	N.C.R	Radiation (03CH05-CB)
Standard Horn Antenna	Custom Microwave	M15RH	V91113-A	50 ~ 75 GHz	N.C.R	N.C.R	Radiation (03CH05-CB)
Standard Horn Antenna	Custom Microwave	M12RH	E91113-A	60 ~ 90 GHz	N.C.R	N.C.R	Radiation (03CH05-CB)
Standard Horn Antenna	Custom Microwave	M08RH	F91113-A	90 ~ 140 GHz	N.C.R	N.C.R	Radiation (03CH05-CB)
Standard Horn Antenna	Custom Microwave	M05RH	G91113-A	140 ~ 220 GHz	N.C.R	N.C.R	Radiation (03CH05-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 01, 2018	May 31, 2019	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	May 30, 2019	May 29, 2020	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

“*” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.



5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (40GHz ~ 220GHz)	4.7 dB	Confidence levels of 95%