



RADIO EXPOSURE TEST REPORT

FCC ID : 2AHBN-AP45
Equipment : 802.11ax 6E Wireless Access Point
Brand Name : Juniper
Model Name : AP45, AP45E
Applicant : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089 USA
Manufacturer : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089 USA
Standard : 47 CFR Part 2.1091

The product was received on Oct. 19, 2021, and testing was started from Oct. 19, 2021 and completed on Oct. 24, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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Photographs of EUT v01



TEL : 886-3-656-9065
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Report Template No.: CB-A1_1 Ver1.1



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Muse Chan



1 General Description

1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) VHT: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5720 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
6E WLAN (Only EUT 1) (LPI Access Point)	5925-7125	5955-7095	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
6E WLAN (Standard Power Access Point)	5925-6425 6525-6875	5955-6415 6535-6855	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Bluetooth	2400-2483.5	2402-2480	LE: GFSK



1.2 Antenna Information

Ant.	Port								Brand Name	Model Name	Ant. Type	Connector	Equip EUT	Gain (dBi)		
	WLAN 5GHz (Radio 1)	WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)	WLAN 6GHz (Radio 3)	WLAN 2.4GHz (Radio 4)	WLAN 5GHz (Radio 4)	WLAN 6GHz (Radio 4)	BT (Radio 5)								
1	1	4	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX	EUT 1			
2	2	3	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
3	3	2	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
4	4	1	-	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
5	-	-	1	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
6	-	-	2	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
7	-	-	3	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
8	-	-	4	-	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
9	-	-	-	1	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
10	-	-	-	2	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
11	-	-	-	3	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
12	-	-	-	4	-	-	-	-	Juniper	AP45	PIFA	I-PEX				
13	-	-	-	-	1	1	1	-	Juniper	AP45	PIFA	I-PEX				
14	-	-	-	-	2	2	2	-	Juniper	AP45	PIFA	I-PEX				
15	-	-	-	-	-	-	-	1	Juniper	AP45	PIFA	I-PEX	EUT 1, EUT 2	Note1		
16	1	4	-	-	-	-	-	-	Acce ITex	ATS-OO-2 456-466-1 OMC-36	OMNI	4-Port connector	EUT 2			
	2	3	-	-	-	-	-	-								
	3	2	-	-	-	-	-	-								
	4	1	-	-	-	-	-	-								
17	1	4	-	-	-	-	-	-	Acce ITex	ATS-OP-2 456-81010 -10MC-36	Panel	4-Port connector			EUT 2	
	2	3	-	-	-	-	-	-								
	3	2	-	-	-	-	-	-								
	4	1	-	-	-	-	-	-								
18	-	-	-	1	-	-	-	-	Acce ITex	ATS-OO-2 456-466-1 OMC-36	OMNI	6-Port connector				EUT 2
	-	-	-	2	-	-	-	-								
	-	-	-	3	-	-	-	-								
	-	-	-	4	-	-	-	-								
	-	-	-	-	1	1	1	-								
	-	-	-	-	2	2	2	-								
19	-	-	-	1	-	-	-	-	Acce ITex	ATS-OO-2 456-466-1 OMC-36	Panel	6-Port connector	EUT 2			
	-	-	-	2	-	-	-	-								
	-	-	-	3	-	-	-	-								
	-	-	-	4	-	-	-	-								
	-	-	-	-	1	1	1	-								
	-	-	-	-	2	2	2	-								



Note 1:

Ant.	Antenna Gain (dBi)																				
	WLAN 5GHz (Radio 1)				WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)		WLAN 6GHz (Radio 3)				WLAN 2.4GHz (Radio 4)	WLAN 5GHz (Radio 4)				WLAN 6GHz (Radio 4)				Bluetooth (Radio 5)
	UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A	UNII 5	UNII 6	UNII 7	UNII 8		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	2.89	3.7	3.46	2.39	2.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	2.61	2.55	3.04	3.8	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	1.94	2.2	2.82	2.54	2.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	3.27	4.06	2.87	2.17	1.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	-	-	-	-	-	3.2	3.56	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	-	-	-	-	-	2.85	3.77	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	-	-	-	-	-	3.37	3.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	-	-	-	-	-	3.11	3.68	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-	-	
10	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-	-	
11	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-	-	
12	-	-	-	-	-	-	-	4.9	5.4	5.4	5.6	-	-	-	-	-	-	-	-	-	
13	-	-	-	-	-	-	-	-	-	-	-	5.0	5.4	5.4	5.5	5.3	4.7	4.8	4.8	4.1	
14	-	-	-	-	-	-	-	-	-	-	-	5.0	5.4	5.4	5.5	5.3	4.7	4.8	4.8	4.1	
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	
16	6	6	6	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	10	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	-	-	-	-	-	-	-	6	6	6	6	4	6	6	6	6	6	6	6	-	
19	-	-	-	-	-	-	-	10	10	10	10	8	10	10	10	10	10	10	10	-	

Ant.	Directional Gain (dBi)						
	WLAN 5GHz (Radio 1)				WLAN 2.4GHz (Radio 2)	WLAN 5GHz (Radio 2)	
	UNII 1	UNII 2A	UNII 2C	UNII 3		UNII 1	UNII 2A
1	6.44	6.41	7.19	6.67	4.23	-	-
2						-	-
3						-	-
4						-	-
5	-	-	-	-	-	7.7	8.16
6	-	-	-	-	-		
7	-	-	-	-	-		
8	-	-	-	-	-		

Note 2: The EUT has nineteen antennas. The ant.15 is BLE Array (Beam 1~Beam 9 and Omni).

Antenna 16 must be used with antenna 18 and antenna 17 must be used with antenna 19.

Note 3: The above information was declared by manufacturer.

Note 4: **For Radio 2**

For 2.4GHz:

For IEEE 802.11b/g/n/VHT/ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For Radio 1

For 5GHz UNII 1~3:

For IEEE 802.11a/n/ac/ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For Radio 2

For 5GHz UNII 1~2A:

For IEEE 802.11a/n/ac/ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For Radio 3

For 6E UNII 5~8 (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.



Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For scanning Radio 4

For 2.4GHz, IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 for EUT 1 and EUT 2 + Ant. 18 generated the worst case, so it was selected to test and record in the report.

The Port 1 for EUT 2 + Ant. 19 generated the worst case, so it was selected to test and record in the report.

For 5GHz UNII 1~3, IEEE 802.11a/n/ac/ax mode (1TX/2RX):

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 for EUT 1 and EUT 2 + Ant. 18 generated the worst case, so it was selected to test and record in the report.

The Port 1 for EUT 2 + Ant. 19 generated the worst case, so it was selected to test and record in the report.

For 6E UNII 5~8, IEEE 802.11ax mode (1TX/2RX):

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used at one time.

The Port 1 generated the worst case, so it was selected to test and record in the report.

For Radio 5

Bluetooth (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

Note 5: For EUT 1:

Radio 1, 2: Maximum Directional Gain following KDB662911 D03. The antenna report is provided in the operational description for this application.

For EUT 2: Maximum Directional Gain following KDB662911 D01.

For Radio 1 5GHz UNII 1~3 + Antenna 16:

For Radio 2 2.4GHz + Antenna 16:

Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ST}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$
BF	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ST}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$	$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ST}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$Directional\ IGain = 10 \cdot \log \left[\frac{\sum_{i=1}^{N_{ST}} \left\{ \sum_{k=1}^{N_{ANT}} g_{i,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,2) = 10^{G3/20} ; NSS1(g1,2) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G\ G1 = 4 ; G2 = 4 ; G3 = 4 ; G4 = 4 ;$$

$$5G\ G1 = 6 ; G2 = 6 ; G3 = 6 ; G4 = 6 ;$$

$$2.4G\ DG = 10.02\ dBi$$

$$5\ GHz\ U-NII-1\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-2A\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-2C\ DG = 12.02\ dBi$$

$$5\ GHz\ U-NII-3\ DG = 12.02\ dBi$$



For Radio 1, 5GHz UNII 1~3 + Antenna 17:

For Radio 2, 2.4GHz + Antenna 17:

Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{22}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{22}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{22}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$Directional\ Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{22}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G\ G1 = 8 ; G2 = 8 ; G3 = 8 ; G4 = 8 ;$$

$$5G\ G1 = 10 ; G2 = 10 ; G3 = 10 ; G4 = 10 ;$$

$$2.4G\ DG = 14.02\ dBi$$

$$5\ GHz\ U-NII-1\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-2A\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-2C\ DG = 16.02\ dBi$$

$$5\ GHz\ U-NII-3\ DG = 16.02\ dBi$$

1.3 Table for Multiple Listing

Model Name	EUT	Antenna	Operation Function	WLAN 6GHz Mode
AP45	1	Internal	Mode 1: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 2.4GHz)+Radio 5 (BT) Mode 2: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 5 GHz) +Radio 5 (BT) Mode 3: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 6 GHz) +Radio 5 (BT) Mode 4: Radio 1 (WLAN 5GHz UNII 2C~3)+Radio 2 (WLAN 5GHz UNII 1~2A) +Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 2.4GHz) +Radio 5 (BT) Mode 5: Radio 1 (WLAN 5GHz UNII 2C~3)+Radio 2 (WLAN 5GHz UNII 1~2A) +Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 5 GHz) +Radio 5 (BT) Mode 6: Radio 1 (WLAN 5GHz UNII 2C~3)+Radio 2 (WLAN 5GHz UNII 1~2A) +Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 6 GHz) +Radio 5 (BT)	6ID&6SD
AP45E	2	External	Mode 1: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 2.4GHz)+Radio 5 (BT) Mode 2: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 5 GHz) +Radio 5 (BT) Mode 3: Radio 1 (WLAN 5GHz UNII 1~3)+Radio 2 (WLAN 2.4GHz)+Radio 3 (WLAN 6 GHz) +Radio 4 (WLAN 6 GHz) +Radio 5 (BT)	6SD

Note: The above information was declared by manufacturer.

1.4 Table for Configuration and Radio Function

Configuration	EUT	Radio 1	Radio 2	Radio 3	Radio 4 (Scanning)	Radio 5
1	EUT 1	(WLAN 5GHz UNII 1~3)	(WLAN 2.4GHz)	(WLAN 6GHz)	(WLAN 2.4GHz)	(Bluetooth)
2	EUT 1				(WLAN 5GHz)	
3	EUT 1				(WLAN 6GHz)	
4	EUT 1 (FEM)	(WLAN 5GHz UNII 2C~3)	(WLAN 5GHz UNII 1~2A)	(WLAN 6GHz)	(WLAN 2.4GHz)	
5	EUT 1 (FEM)				(WLAN 5GHz)	
6	EUT 1 (FEM)				(WLAN 6GHz)	
7	EUT 2	(WLAN 5GHz UNII 1~3)	(WLAN 2.4GHz)	(WLAN 6GHz)	(WLAN 2.4GHz)	
8	EUT 2				(WLAN 5GHz)	
9	EUT 2				(WLAN 6GHz)	

Note: The above information was declared by manufacturer.

1.5 Accessories

Others
Antenna bracket*1 (Only for ant. 17 and ant. 19 use) (Note)
Bracket*1

Note: Optional, not sold with EUT



1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FA182421-05

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Add the standard Power Access Point for this device via Firmware by factory.	MPE for Standard Power Access Point
2. Updating the internal mode MPE distance to "61cm" from "50cm". 3. Updating the external mode MPE distance to "69cm" from "58cm". 4. Revising the Accessories of Antenna bracket to "Optional, not sold with EUT" from "Sold with EUT".	MPE for all band



1.7 Applicable Standards

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

- ♦ 47 CFR Part 2.1091
- ♦ KDB 447498 D04 Interim General RF Exposure Guidance v01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ 47 CFR Part 1.1307
- ♦ 47 CFR Part 1.1310

1.8 Testing Location

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.



2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	*(100)	<6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1500	-	-	f/300	<6
1500-100,000	-	-	5	<6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1500	-	-	f/1500	<30
1500-100,000	-	-	1.0	<30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Method

The MPE was calculated at internal: 61 cm and external: 69 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



2.3 MPE Exemption

Option (A): 1.1307(b)(3)(i)(A): Available maximum time-averaged power is < 1 mW

Option (B): 1.1307(b)(3)(i)(B): Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Option (C): 1.1307(b)(3)(i)(C): ERP is below a threshold calculated based on the distance

R between the person and the antenna / radiating structure, where $R > \lambda / 2 \pi$.

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.
Note: R is in meters, f is in MHz.	



2.4 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

For EUT 1

Radio 1

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
5.2G;D1D	6.44	25.90	32.34	0.50	32.84	1.92309	61	0.04113	1.00000
5.3G;D1D	6.41	23.56	29.97	0.02	29.99	0.99770	61	0.02134	1.00000
5.6G;D1D	7.19	22.71	29.90	0.09	29.99	0.99770	61	0.02134	1.00000
5.8G;D1D	6.67	26.92	33.59	0.50	34.09	2.56448	61	0.05484	1.00000

Radio 2

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;G1D	2.04	29.78	31.82	0.50	32.32	1.70608	61	0.03649	1.00000
5.2G;D1D	7.70	28.03	35.73	0.26	35.99	3.97192	61	0.08494	1.00000
5.3G;D1D	8.16	21.80	29.96	0.03	29.99	0.99770	61	0.02134	1.00000

Radio 3 (LPI Access Point)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	10.92	-	23.31	0.50	23.81	0.24044	61	0.00514	1.00000
6.4G;D1D	11.42	-	23.95	0.50	24.45	0.27861	61	0.00596	1.00000
6.7G;D1D	11.42	-	23.60	0.50	24.10	0.25704	61	0.00550	1.00000
7.0G;D1D	11.62	-	23.29	0.50	23.79	0.23933	61	0.00512	1.00000

Radio 3 (Standard Power Access Point)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	10.92	-	35.29	0.50	35.79	3.79315	61	0.08112	1.00000
6.7G;D1D	11.42	-	34.06	0.50	34.56	2.85759	61	0.06111	1.00000

**Scanning radio 4**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;G1D	5.00	21.28	26.28	0.50	26.78	0.47643	61	0.01019	1.00000
5.2G;D1D	5.40	23.09	28.49	0.50	28.99	0.79250	61	0.01695	1.00000
5.3G;D1D	5.40	21.83	27.23	0.50	27.73	0.59293	61	0.01268	1.00000
5.6G;D1D	5.50	20.18	25.68	0.50	26.18	0.41495	61	0.00887	1.00000
5.8G;D1D	5.30	24.01	29.31	0.50	29.81	0.95719	61	0.02047	1.00000

Scanning radio 4 (LPI Access Point):

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	4.70	19.21	23.91	0.50	24.41	0.27606	61	0.00590	1.00000
6.4G;D1D	4.80	19.10	23.90	0.50	24.40	0.27542	61	0.00589	1.00000
6.7G;D1D	4.80	19.04	23.84	0.50	24.34	0.27164	61	0.00581	1.00000
7.0G;D1D	4.10	19.11	23.21	0.50	23.71	0.23496	61	0.00502	1.00000

Scanning radio 4 (Standard Power Access Point):

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	4.70	23.60	28.30	0.50	28.80	0.75858	61	0.01622	1.00000
6.7G;D1D	4.80	23.75	28.55	0.50	29.05	0.80353	61	0.01718	1.00000

Radio 5

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;BT-LE	4.50	7.93	12.43	0.50	12.93	0.01963	61	0.00042	1.00000

**For EUT 2****Radio 1 + Ant.16**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
5.2G;D1D	12.02	23.55	35.57	0.42	35.99	3.97192	69	0.06639	1.00000
5.3G;D1D	12.02	17.90	29.92	0.07	29.99	0.99770	69	0.01668	1.00000
5.6G;D1D	12.02	17.88	29.90	0.90	30.80	1.20226	69	0.02009	1.00000
5.8G;D1D	12.02	23.88	35.90	0.09	35.99	3.97192	69	0.06639	1.00000

Radio 1 + Ant.17

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
5.2G;D1D	16.02	19.85	35.87	0.12	35.99	3.97192	69	0.06639	1.00000
5.3G;D1D	16.02	13.94	29.96	0.03	29.99	0.99770	69	0.01668	1.00000
5.6G;D1D	16.02	13.95	29.97	0.02	29.99	0.99770	69	0.01668	1.00000
5.8G;D1D	16.02	19.96	35.98	0.01	35.99	3.97192	69	0.06639	1.00000

Radio 2 + Ant.16

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;D1D	10.02	23.99	34.01	0.50	34.51	2.82488	69	0.04722	1.00000

Radio 2 + Ant.17

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;D1D	14.02	21.95	35.97	0.02	35.99	3.97192	69	0.06639	1.00000

**Radio 3 + Ant. 18 (LPI Access Point):**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	12.02	-	23.89	0.50	24.39	0.27479	69	0.00459	1.00000
6.4G;D1D	6.00	-	23.83	0.50	24.33	0.27102	69	0.00453	1.00000
6.7G;D1D	12.02	-	23.84	0.50	24.34	0.27164	69	0.00454	1.00000
7.0G;D1D	12.02	-	23.81	0.50	24.31	0.26977	69	0.00451	1.00000

Radio 3 + Ant. 18 (Standard Power Access Point):

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	12.02	-	34.27	0.50	34.77	2.99916	69	0.05013	1.00000
6.7G;D1D	12.02	-	32.51	0.50	33.01	1.99986	69	0.03343	1.00000

Radio 3 + Ant. 19 (LPI Access Point):

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	16.02	-	23.62	0.50	24.12	0.25823	69	0.00432	1.00000
6.4G;D1D	16.02	-	23.28	0.50	23.78	0.23878	69	0.00399	1.00000
6.7G;D1D	16.02	-	23.29	0.50	23.79	0.23933	69	0.00400	1.00000
7.0G;D1D	16.02	-	23.67	0.50	24.17	0.26122	69	0.00437	1.00000

Radio 3 + Ant. 19 (Standard Power Access Point):

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	16.02	-	35.82	0.17	35.99	3.97192	69	0.06639	1.00000
6.7G;D1D	16.02	-	35.66	0.33	35.99	3.97192	69	0.06639	1.00000

**Radio 4 + Ant. 18**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;G1D	4.00	21.72	25.72	0.50	26.22	0.41879	69	0.00700	1.00000
5.2G;D1D	6.00	21.32	27.32	0.50	27.82	0.60534	69	0.01012	1.00000
5.3G;D1D	6.00	19.85	25.85	0.50	26.35	0.43152	69	0.00721	1.00000
5.6G;D1D	6.00	19.23	25.23	0.50	25.73	0.37411	69	0.00625	1.00000
5.8G;D1D	6.00	23.42	29.42	0.50	29.92	0.98175	69	0.01641	1.00000

Radio 4 + Ant. 18 (LPI Access Point):

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	6.00	17.94	23.94	0.50	24.44	0.27797	69	0.00465	1.00000
6.4G;D1D	6.00	17.89	23.89	0.50	24.39	0.27479	69	0.00459	1.00000
6.7G;D1D	6.00	17.94	23.94	0.50	24.44	0.27797	69	0.00465	1.00000
7.0G;D1D	6.00	17.86	23.86	0.50	24.36	0.27290	69	0.00456	1.00000

Radio 4 + Ant. 18 (Standard Power Access Point):

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	6.00	23.96	29.96	0.50	30.46	1.11173	69	0.01858	1.00000
6.7G;D1D	6.00	22.84	28.84	0.50	29.34	0.85901	69	0.01436	1.00000

Radio 4 + Ant. 19

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;G1D	8.00	20.95	28.95	0.50	29.45	0.88105	69	0.01473	1.00000
5.2G;D1D	10.00	20.58	30.58	0.50	31.08	1.28233	69	0.02143	1.00000
5.3G;D1D	10.00	19.79	29.79	0.20	29.99	0.99770	69	0.01668	1.00000
5.6G;D1D	10.00	18.35	28.35	0.50	28.85	0.76736	69	0.01283	1.00000
5.8G;D1D	10.00	23.03	33.03	0.50	33.53	2.25424	69	0.03768	1.00000

Radio 4 + Ant. 19 (LPI Access Point):

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	10.00	13.94	23.94	0.50	24.44	0.27797	69	0.00465	1.00000
6.4G;D1D	10.00	13.89	23.89	0.50	24.39	0.27479	69	0.00459	1.00000
6.7G;D1D	10.00	13.92	23.92	0.50	24.42	0.27669	69	0.00462	1.00000
7.0G;D1D	10.00	13.94	23.94	0.50	24.44	0.27797	69	0.00465	1.00000

**Radio 4 + Ant. 19 (Standard Power Access Point):**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
6.2G;D1D	10.00	23.96	33.96	0.50	34.46	2.79254	69	0.04667	1.00000
6.7G;D1D	10.00	22.84	32.84	0.50	33.34	2.15774	69	0.03606	1.00000

Radio 5

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
2.4G;BT-LE	4.50	7.93	12.43	0.50	12.93	0.01963	69	0.00033	1.00000



For EUT 1:

Mode1: Radio 1 (5GHz Full band)+Radio 2 (2.4GHz)+Radio 3 (6GHz)+Radio 4 (2.4GHz)+Radio 5 (Bluetooth)

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5745	0.0083	0.61	34.09	31.94	1.563	7.144	Complies
2437	0.0196		32.32	30.17	1.040	7.144	Complies
6205	0.0077		35.79	33.64	2.312	7.144	Complies
2437	0.0196		26.78	24.63	0.290	7.144	Complies
2440	0.0196		12.93	10.78	0.012	7.144	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5745	0.61	34.09	31.94	1.563	7.144	0.73	<= 1
2437		32.32	30.17	1.040	7.144		
6205		35.79	33.64	2.312	7.144		
2437		26.78	24.63	0.290	7.144		
2440		12.93	10.78	0.012	7.144		

Mode2: Radio 1 (5GHz Full band)+Radio 2 (2.4GHz)+Radio 3 (6GHz)+Radio 4 (5GHz)+Radio 5 (Bluetooth)

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5825	0.0082	0.61	34.09	31.94	1.563	7.144	Complies
2437	0.0196		32.32	30.17	1.040	7.144	Complies
6205	0.0077		35.79	33.64	2.312	7.144	Complies
5785	0.0082		29.81	27.66	0.583	7.144	Complies
2440	0.0196		12.93	10.78	0.012	7.144	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5825	0.61	34.09	31.94	1.563	7.144	0.77	<= 1
2437		32.32	30.17	1.040	7.144		
6205		35.79	33.64	2.312	7.144		
5785		29.81	27.66	0.583	7.144		
2440		12.93	10.78	0.012	7.144		

**Mode3: Radio 1 (5GHz Full band)+Radio 2 (2.4GHz)+Radio 3 (6GHz)+Radio 4 (6GHz)+Radio 5 (Bluetooth)**

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5825	0.0082	0.61	34.09	31.94	1.563	7.144	Complies
2437	0.0196		32.32	30.17	1.040	7.144	Complies
6205	0.0077		35.79	33.64	2.312	7.144	Complies
6565	0.0073		29.05	26.90	0.490	7.144	Complies
2440	0.0196		12.93	10.78	0.012	7.144	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5825	0.61	34.09	31.94	1.563	7.144	0.76	<= 1
2437		32.32	30.17	1.040	7.144		
6205		35.79	33.64	2.312	7.144		
6565		29.05	26.90	0.490	7.144		
2440		12.93	10.78	0.012	7.144		

Mode4: Radio 1 (5GHz High Band)+Radio 2 (5GHz Low Band)+Radio 3 (6GHz)+Radio 4 (2.4GHz)+Radio 5 (Bluetooth)

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5825	0.0082	0.61	34.09	31.94	1.563	7.144	Complies
5200	0.0092		35.99	33.84	2.421	7.144	Complies
6205	0.0077		35.79	33.64	2.312	7.144	Complies
2437	0.0196		26.78	24.63	0.290	7.144	Complies
2440	0.0196		12.93	10.78	0.012	7.144	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5825	0.61	34.09	31.94	1.563	7.144	0.92	<= 1
5200		35.99	33.84	2.421	7.144		
6205		35.79	33.64	2.312	7.144		
2437		26.78	24.63	0.290	7.144		
2440		12.93	10.78	0.012	7.144		



Mode5: Radio 1 (5GHz High Band)+Radio 2 (5GHz Low Band)+Radio 3 (6GHz)+Radio 4 (5GHz)+Radio 5 (Bluetooth)

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5825	0.0082	0.61	34.09	31.94	1.563	7.144	Complies
5200	0.0092		35.99	33.84	2.421	7.144	Complies
6205	0.0077		35.79	33.64	2.312	7.144	Complies
5785	0.0082		29.81	27.66	0.583	7.144	Complies
2440	0.0196		12.93	10.78	0.012	7.144	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5825	0.61	34.09	31.94	1.563	7.144	0.96	<= 1
5200		35.99	33.84	2.421	7.144		
6205		35.79	33.64	2.312	7.144		
5785		29.81	27.66	0.583	7.144		
2440		12.93	10.78	0.012	7.144		

Mode6: Radio 1 (5GHz High Band)+Radio 2 (5GHz Low Band)+Radio 3 (6GHz)+Radio 4 (6GHz)+Radio 5 (Bluetooth)

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5825	0.0082	0.61	34.09	31.94	1.563	7.144	Complies
5200	0.0092		35.99	33.84	2.421	7.144	Complies
6205	0.0077		35.79	33.64	2.312	7.144	Complies
6565	0.0073		29.05	26.90	0.490	7.144	Complies
2440	0.0196		12.93	10.78	0.012	7.144	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5825	0.61	34.09	31.94	1.563	7.144	0.95	<= 1
5200		35.99	33.84	2.421	7.144		
6205		35.79	33.64	2.312	7.144		
6565		29.05	26.90	0.490	7.144		
2440		12.93	10.78	0.012	7.144		

**For EUT 2:****Mode7: Radio 1 (5GHz Full band)+Radio 2 (2.4GHz)+Radio 3 (6GHz)+Radio 4(2.4GHz)+Radio 5 (Bluetooth)**

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5825	0.0082	0.69	35.99	33.84	2.421	9.141	Complies
2457	0.0194		35.99	33.84	2.421	9.141	Complies
6205	0.0077		35.99	33.84	2.421	9.141	Complies
2437	0.0196		29.45	27.30	0.537	9.141	Complies
2440	0.0196		12.93	10.78	0.012	9.141	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5825	0.69	35.99	33.84	2.421	9.141	0.85	<= 1
2457		35.99	33.84	2.421	9.141		
6205		35.99	33.84	2.421	9.141		
2437		29.45	27.30	0.537	9.141		
2440		12.93	10.78	0.012	9.141		

Mode8: Radio 1 (5GHz Full band)+Radio 2 (2.4GHz)+Radio 3 (6GHz)+Radio 4(5GHz)+Radio 5 (Bluetooth)

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5825	0.0082	0.69	35.99	33.84	2.421	9.141	Complies
2457	0.0194		35.99	33.84	2.421	9.141	Complies
6205	0.0077		35.99	33.84	2.421	9.141	Complies
5785	0.0082		33.53	31.38	1.374	9.141	Complies
2440	0.0196		12.93	10.78	0.012	9.141	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5825	0.69	35.99	33.84	2.421	9.141	0.95	<= 1
2457		35.99	33.84	2.421	9.141		
6205		35.99	33.84	2.421	9.141		
5785		33.53	31.38	1.374	9.141		
2440		12.93	10.78	0.012	9.141		

**Mode9: Radio 1 (5GHz Full band)+Radio 2 (2.4GHz)+Radio 3 (6GHz)+Radio 4(6GHz)+Radio 5 (Bluetooth)**

MPE Exemption Option C							
Frequency (MHz)	$\lambda/2\pi$ (m)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption
5825	0.0082	0.69	35.99	33.84	2.421	9.141	Complies
2457	0.0194		35.99	33.84	2.421	9.141	Complies
6205	0.0077		35.99	33.84	2.421	9.141	Complies
6205	0.0077		34.46	32.31	1.702	9.141	Complies
2440	0.0196		12.93	10.78	0.012	9.141	Complies

Simultaneous Transmission Analysis Mode:

Simultaneous Transmissions Option C							
Frequency (MHz)	R (m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	Simultaneous Transmissions	Simultaneous Transmissions Limit
5825	0.69	35.99	33.84	2.421	9.141	0.98	<= 1
2457		35.99	33.84	2.421	9.141		
6205		35.99	33.84	2.421	9.141		
6205		34.46	32.31	1.702	9.141		
2440		12.93	10.78	0.012	9.141		

————THE END————