



RADIO EXPOSURE TEST REPORT

FCC ID : UDX-CW9177E
Equipment : Cisco Wireless 9177E Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9177E
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR Part 2.1091

The product was received on Feb. 04, 2026, and testing was started from Mar. 04, 2026 and completed on Jul. 31, 2026. 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 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

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 EUT General Information	5
1.2 Antenna Information	6
1.3 Table for SW Information	18
1.4 Table for Radio Function	18
1.5 Accessories	18
1.6 Testing Location	19
2 Maximum Permissible Exposure	20
2.1 Limit of Maximum Permissible Exposure	20
2.2 MPE Calculation Method	20
2.3 Calculated Result and Limit.....	21
Photographs of EUT v01	



History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A1_1 Ver1.1

Page Number : 3 of 29
Issued Date : Aug. 06, 2026
Report Version : 01



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: Wendy Pan



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, 1024QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5250 5250-5320 5500-5720 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN	5925-6425 6525-6875	5955-6415 6535-6855	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Bluetooth	2400-2483.5	2402-2480	LE: GFSK
IEEE802.15.4	2400-2483.5	2405-2480	O-QPSK

Serial Number	WTT300300FD
---------------	-------------



1.2 Antenna Information

Set.	Port	Brand Name	Model Name	Antenna Type	Connector	Frequency Band	Radio (R)	Gain (dBi)
1	Note 1	WNC	CW-ANT-T-D4-N	Dipole	N-type	WLAN 2.4GHz, WLAN 5GHz, WLAN 6GHz, Bluetooth, IEEE802.15.4	R0/R1/R2/ R3/R4	Note 2
2		CISCO	AIR-ANT2588P4M-NS	Directional Antenna	N-type	WLAN 2.4GHz, WLAN 5GHz, Bluetooth, IEEE802.15.4		
3		TE connectivity	CW-ANT-T-D3-N	Directional Dipole Antenna	N-type	WLAN 2.4GHz, WLAN 5GHz, WLAN 6GHz, Bluetooth, IEEE802.15.4		
4		CISCO	AIR-ANT2513P4M-N AIR-ANT2513P4M-NS	Dual-Band Polarization Diverse Patch Array	N-type	WLAN 2.4GHz, WLAN 5GHz, Bluetooth, IEEE802.15.4		
5		CISCO	CW-ANT-T-O3-N	Omnidirectional Antenna	N-type	WLAN 2.4GHz, WLAN 5GHz, WLAN 6GHz, Bluetooth, IEEE802.15.4		
6		WNC	95XPAN15.G24	PIFA	I-PEX	GPS	R5	
7	WNC	81VEAR15.G01	Patch	SMA	GPS			

Note 1

Port	Test Port of Test Results												
	WLAN 2.4GHz (Radio 1)			WLAN 5GHz UNII 2C~3 or 6GHz (Radio 2)			WLAN 5GHz UNII 1~2A or 5GHz UNII1~3 (Radio 3)			WLAN 2.4GHz, 5GHz (Scan Radio 0)	WLAN 6GHz (Scan Radio 0)	Bluetooth / IEEE802.15.4 (Radio 4)	GPS (Radio 5)
	1TX	2TX	4TX	1TX	2TX	4TX	1TX	2TX	4TX	1TX	1TX	1TX	1TX
1	1	1	1	-	-	-	1	1	1	-	-	-	-
2	-	2	2	-	-	-	-	2	2	-	-	-	-
3	-	-	3	-	-	-	-	-	3	-	-	1	-
4	-	-	4	-	-	-	-	-	4	1	-	-	-
5	-	-	-	1	1	1	-	-	-	-	-	-	-
6	-	-	-	-	2	2	-	-	-	-	-	-	-
7	-	-	-	-	-	3	-	-	-	-	-	-	-
8	-	-	-	-	-	4	-	-	-	-	1	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	1
10	-	-	-	-	-	-	-	-	-	-	-	-	1



Note 2:

Set	Antenna Peak Gain (dBi)							
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz		
1		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7
	8.2	7.6	7.6	7.6	7.6	7.8	7.8	7.8
Set	Antenna Peak Gain for 30 degrees (dBi)							
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz		
1		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7
	-	-4	-	-	-	-2.8	-3.5	-3.6

Set	Port	Internal cable loss U.FL to N-Type (dB)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
1	1	1.10	-	-	-	-	-	1.70	1.70	1.90	1.90	-	-	-	-	-	-	-	-	
	2	0.90	-	-	-	-	-	1.50	1.50	1.70	1.80	-	-	-	-	-	-	-	-	
	3	0.70	-	-	-	-	-	1.00	1.00	1.20	1.20	-	-	-	-	-	-	-	0.70	
	4	0.60	-	-	-	-	-	1.00	1.00	1.10	1.10	0.60	1.00	1.00	1.10	1.10	-	-	-	
	5	-	1.40	1.50	1.70	1.70	1.70	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	1.40	1.50	1.50	1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	1.70	1.70	1.80	1.90	1.90	-	-	-	-	-	-	-	-	-	-	-	-	
	8	-	1.50	1.50	1.60	1.70	1.70	-	-	-	-	-	-	-	-	1.60	1.70	1.70	-	

Set	Port	Net Gain (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
1	1	7.10	-	-	-	-	-	5.90	5.90	5.70	5.70	-	-	-	-	-	-	-	-	
	2	7.30	-	-	-	-	-	6.10	6.10	5.90	5.80	-	-	-	-	-	-	-	-	
	3	7.50	-	-	-	-	-	6.60	6.60	6.40	6.40	-	-	-	-	-	-	-	7.50	
	4	7.60	-	-	-	-	-	6.60	6.60	6.50	6.50	7.60	6.60	6.60	6.50	6.50	-	-	-	
	5	-	6.20	6.10	6.10	6.10	6.10	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	6.20	6.10	6.30	6.30	6.30	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	5.90	5.90	6.00	5.90	5.90	-	-	-	-	-	-	-	-	-	-	-	-	
	8	-	6.10	6.10	6.20	6.10	6.10	-	-	-	-	-	-	-	-	-	6.20	6.10	6.10	

Set	Port	Net Gain for 30 degrees (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
1	1	-	-	-	-	-	-5.70	-	-	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-5.50	-	-	-	-	-	-	-	-	-	-	-	-	
	3	-	-	-	-	-	-5.00	-	-	-	-	-	-	-	-	-	-	-	-	
	4	-	-	-	-	-	-5.00	-	-	-	-	-5.00	-	-	-	-	-	-	-	
	5	-	-	-	-4.50	-5.20	-5.30	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	-	-	-4.30	-5.00	-5.10	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	-	-	-4.60	-5.40	-5.50	-	-	-	-	-	-	-	-	-	-	-	-	
	8	-	-	-	-4.40	-5.20	-5.30	-	-	-	-	-	-	-	-	-4.40	-5.20	-5.30	-	



RADIO EXPOSURE TEST REPORT

Report No. : FA5D2458-01

Set	Ant.	Port	Antenna Peak Gain (dBi)																	
			WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)							Bluetooth / IEEE802.15.4 (Radio 4)
				UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	
2	1	1	7.10	-	-	-	-	-	7.80	7.80	7.80	7.80	-	-	-	-	-	-	-	-
	2	2	9.10	-	-	-	-	-	9.60	9.60	9.60	9.60	-	-	-	-	-	-	-	-
	3	3	9.10	-	-	-	-	-	9.60	9.60	9.60	9.60	-	-	-	-	-	-	-	9.10
	4	4	7.10	-	-	-	-	-	7.80	7.80	7.80	7.80	7.10	7.80	7.80	7.80	7.80	-	-	-
	5	1	-	7.80	7.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	2	-	9.60	9.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	3	-	9.60	9.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	4	-	7.80	7.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antenna Peak Gain for 30 degrees (dBi)																				
WLAN 5GHz / UNII 1																				
3																				

Set	Port	Internal cable loss U.FL to N-Type (dB)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
2	1	1.10	-	-	-	-	-	1.70	1.70	1.90	1.90	-	-	-	-	-	-	-	-	-
	2	0.90	-	-	-	-	-	1.50	1.50	1.70	1.80	-	-	-	-	-	-	-	-	-
	3	0.70	-	-	-	-	-	1.00	1.00	1.20	1.20	-	-	-	-	-	-	-	-	0.70
	4	0.60	-	-	-	-	-	1.00	1.00	1.10	1.10	0.60	1.00	1.00	1.10	1.10	-	-	-	-
	5	-	1.40	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	1.40	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	1.70	1.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	1.60	1.70	1.70	-

Set	Port	N-Type cable loss (dB)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
2	1	0.50	-	-	-	-	-	0.80	0.80	0.80	0.80	-	-	-	-	-	-	-	-	-
	2	0.50	-	-	-	-	-	0.80	0.80	0.80	0.80	-	-	-	-	-	-	-	-	-
	3	0.50	-	-	-	-	-	0.80	0.80	0.80	0.80	-	-	-	-	-	-	-	-	0.50
	4	0.50	-	-	-	-	-	0.80	0.80	0.80	0.80	0.50	0.80	0.80	0.80	0.80	-	-	-	-
	5	-	0.80	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	0.80	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	0.80	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	0.80	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Set	Port	Net Gain (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
2	1	5.50	-	-	-	-	-	5.30	7.10	5.10	5.10	-	-	-	-	-	-	-	-	-
	2	7.70	-	-	-	-	-	7.30	7.30	7.10	7.00	-	-	-	-	-	-	-	-	-
	3	7.90	-	-	-	-	-	7.80	7.80	7.60	7.60	-	-	-	-	-	-	-	-	7.90
	4	6.00	-	-	-	-	-	6.00	7.80	5.90	5.90	6.00	6.00	6.00	5.90	5.90	-	-	-	-
	5	-	5.60	5.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	7.40	7.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	7.10	7.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	5.50	5.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Port	Net Gain for 30 degrees (dBi)																		
		WLAN 5GHz / UNII 1																		
	1	0.50																		
	2	0.70																		
3	1.20																			
4	1.20																			



Set	Antenna Peak Gain (dBi)							
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz		
UNII 1		UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
6.00		7.50	7.50	7.50	7.50	7.50	7.50	6.00
Set	Antenna Peak Gain for 30 degrees (dBi)							
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz		
UNII 1		UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
-		5.00	-	-	-	1.00	1.00	0.50

Set	Port	Internal cable loss U.FL to N-Type (dB)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	3	5	6	7	
3	1	1.10	-	-	-	-	-	1.70	1.70	1.90	1.90	-	-	-	-	-	-	-	-	
	2	0.90	-	-	-	-	-	1.50	1.50	1.70	1.80	-	-	-	-	-	-	-	-	
	3	0.70	-	-	-	-	-	1.00	1.00	1.20	1.20	-	-	-	-	-	-	-	0.70	
	4	0.60	-	-	-	-	-	1.00	1.00	1.10	1.10	0.60	1.00	1.00	1.10	1.10	-	-	-	
	5	-	1.40	1.50	1.70	1.70	1.70	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	1.40	1.50	1.50	1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	1.70	1.70	1.80	1.90	1.90	-	-	-	-	-	-	-	-	-	-	-	-	
	8	-	1.50	1.50	1.60	1.70	1.70	-	-	-	-	-	-	-	-	-	1.60	1.70	1.70	

Set	Port	Net Gain (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
3	1	4.90	-	-	-	-	-	5.80	5.80	5.60	5.60	-	-	-	-	-	-	-	-	-
	2	5.10	-	-	-	-	-	6.00	6.00	5.80	5.70	-	-	-	-	-	-	-	-	-
	3	5.30	-	-	-	-	-	6.50	6.50	6.30	6.30	-	-	-	-	-	-	-	-	5.30
	4	5.40	-	-	-	-	-	6.50	6.50	6.40	6.40	5.40	6.50	6.50	6.40	6.40	-	-	-	-
	5	-	6.10	6.00	5.80	5.80	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	6.10	6.00	6.00	6.00	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	5.80	5.80	5.70	5.60	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	6.00	6.00	5.90	5.80	5.80	-	-	-	-	-	-	-	-	-	5.90	5.80	5.80	-

Set	Port	Net Gain for 30 degrees (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
3	1	-	-	-	-	-	3.30	-	-	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	3.50	-	-	-	-	-	-	-	-	-	-	-	-	
	3	-	-	-	-	-	4.00	-	-	-	-	-	-	-	-	-	-	-	-	
	4	-	-	-	-	-	4.00	-	-	-	-	-	4.00	-	-	-	-	-	-	
	5	-	-	-	-0.70	-0.70	-1.20	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	-	-	-0.50	-0.50	-1.00	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	-	-	-0.80	-0.90	-1.40	-	-	-	-	-	-	-	-	-	-	-	-	
	8	-	-	-	-0.60	-0.70	-1.20	-	-	-	-	-	-	-	-	-0.60	-0.70	-1.20	-	



RADIO EXPOSURE TEST REPORT

Report No. : FA5D2458-01

Set	Antenna Peak Gain (dBi)								
4	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz			Bluetooth / IEEE802.15.4 (Radio 4)
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
	13.00	13.00	13.00	13.00	13.00	-	-	-	13.00
Set	Antenna Peak Gain for 30 degrees (dBi)								
4	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz			Bluetooth / IEEE802.15.4 (Radio 4)
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
	-	1.00	-	-	-	-	-	-	-

Set	Port	Internal cable loss U.FL to N-Type (dB)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
4	1	1.10	-	-	-	-	-	1.70	1.70	1.90	1.90	-	-	-	-	-	-	-	-	
	2	0.90	-	-	-	-	-	1.50	1.50	1.70	1.80	-	-	-	-	-	-	-	-	
	3	0.70	-	-	-	-	-	1.00	1.00	1.20	1.20	-	-	-	-	-	-	-	0.70	
	4	0.60	-	-	-	-	-	1.00	1.00	1.10	1.10	0.60	1.00	1.00	1.10	1.10	-	-	-	
	5	-	1.40	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	1.40	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	1.70	1.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8	-	1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Set	Port	N-Type cable loss (dB)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
4	1	0.50	-	-	-	-	-	0.80	0.80	0.80	0.80	-	-	-	-	-	-	-	-	-
	2	0.50	-	-	-	-	-	0.80	0.80	0.80	0.80	-	-	-	-	-	-	-	-	-
	3	0.50	-	-	-	-	-	0.80	0.80	0.80	0.80	-	-	-	-	-	-	-	-	0.50
	4	0.50	-	-	-	-	-	0.80	0.80	0.80	0.80	0.50	0.80	0.80	0.80	0.80	-	-	-	-
	5	-	0.80	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	0.80	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	0.80	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	0.80	0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Set	Port	Net Gain (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
4	1	11.40	-	-	-	-	-	10.50	10.50	10.30	10.30	-	-	-	-	-	-	-	-	-
	2	11.60	-	-	-	-	-	10.70	10.70	10.50	10.40	-	-	-	-	-	-	-	-	-
	3	11.80	-	-	-	-	-	11.20	11.20	11.00	11.00	-	-	-	-	-	-	-	-	11.80
	4	11.90	-	-	-	-	-	11.20	11.20	11.10	11.10	11.90	11.20	11.20	11.10	11.10	-	-	-	-
	5	-	10.80	10.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	10.80	10.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	10.50	10.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	10.70	10.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Set	Port	Net Gain for 30 degrees (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
4	1	-	-	-	-	-	-1.50	-	-	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-1.30	-	-	-	-	-	-	-	-	-	-	-	-	
	3	-	-	-	-	-	-0.80	-	-	-	-	-	-	-	-	-	-	-	-	
	4	-	-	-	-	-	-0.80	-	-	-	-	-0.80	-	-	-	-	-	-	-	
	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



RADIO EXPOSURE TEST REPORT

Report No. : FA5D2458-01

Set	Antenna Peak Gain (dBi)							
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz		
5		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7
	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Set	Antenna Peak Gain for 30 degrees (dBi)							
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz		
5		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7
	-	-0.50	-	-	-	1.00	1.00	1.00

Set	Port	Internal cable loss U.FL to N-Type (dB)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
5	1	1.10	-	-	-	-	-	1.70	1.70	1.90	1.90	-	-	-	-	-	-	-	-	-
	2	0.90	-	-	-	-	-	1.50	1.50	1.70	1.80	-	-	-	-	-	-	-	-	-
	3	0.70	-	-	-	-	-	1.00	1.00	1.20	1.20	-	-	-	-	-	-	-	-	0.70
	4	0.60	-	-	-	-	-	1.00	1.00	1.10	1.10	0.60	1.00	1.00	1.10	1.10	-	-	-	-
	5	-	1.40	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	1.40	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	1.70	1.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Set	Port	Net Gain (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
5	1	2.90	-	-	-	-	-	2.30	2.30	2.10	2.10	-	-	-	-	-	-	-	-	-
	2	3.10	-	-	-	-	-	2.50	2.50	2.30	2.20	-	-	-	-	-	-	-	-	-
	3	3.30	-	-	-	-	-	3.00	3.00	2.80	2.80	-	-	-	-	-	-	-	-	3.30
	4	3.40	-	-	-	-	-	3.00	3.00	2.90	2.90	3.40	3.00	3.00	2.90	2.90	-	-	-	-
	5	-	2.60	2.50	2.30	2.30	2.30	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	2.60	2.50	2.50	2.50	2.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	7	-	2.30	2.30	2.20	2.10	2.10	-	-	-	-	-	-	-	-	-	-	-	-	-
	8	-	2.50	2.50	2.40	2.30	2.30	-	-	-	-	-	-	-	-	-	2.40	2.30	2.30	-

Set	Port	Net Gain for 30 degrees (dBi)																		
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 2)					WLAN 5GHz (Radio 3)				WLAN 2.4GHz, 5GHz, 6GHz (Scan Radio 0)								Bluetooth / IEEE802.15.4 (Radio 4)
			UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 1	UNII 2A	UNII 2C	UNII 3	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	
5	1	-	-	-	-	-	-2.20	-	-	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-2.00	-	-	-	-	-	-	-	-	-	-	-	-	
	3	-	-	-	-	-	-1.50	-	-	-	-	-	-	-	-	-	-	-	-	
	4	-	-	-	-	-	-1.50	-	-	-	-	-1.50	-	-	-	-	-	-	-	
	5	-	-	-	-0.70	-0.70	-0.70	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	-	-	-0.50	-0.50	-0.50	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	-	-	-0.80	-0.90	-0.90	-	-	-	-	-	-	-	-	-	-	-	-	
	8	-	-	-	-0.60	-0.70	-0.70	-	-	-	-	-	-	-	-	-0.60	-0.70	-0.70	-	



Set	Port	Antenna Peak Gain (dBi)
		GPS (Radio 5)
6	9	3.2
7	10	2.98

Set	Port	Internal cable loss U.FL to N-Type (dB)
		GPS (Radio 5)
7	10	0.50

Set	Port	Net Gain (dBi)
		GPS (Radio 5)
7	10	2.48

Note 2: The above information was declared by manufacturer.

Note 3: 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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

For 2TX:

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

For 4TX:

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where;



**For Minimum Antenna Gain Configuration:
For Directional Gain:**

Radio	Mode		Mini Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
1	2.4GHz	2TX	2.90	3.10	-	-	6.01	
		4TX	2.90	3.10	3.30	3.40	9.20	
2	5GHz UNII-2C	2TX	2.60	2.60	-	-	5.61	
		4TX	2.60	2.60	2.30	2.50	8.52	
	5GHz UNII-3	2TX	2.50	2.50	-	-	5.51	
		4TX	2.50	2.50	2.30	2.50	8.47	
	6GHz UNII-5	2TX	2.30	2.50	-	-	5.41	
		4TX	2.30	2.50	2.20	2.40	8.37	
	6GHz UNII-6	2TX	2.30	2.50	-	-	5.41	
		4TX	2.30	2.50	2.10	2.30	8.32	
	6GHz UNII-7	2TX	2.30	2.50	-	-	5.41	
		4TX	2.30	2.50	2.10	2.30	8.32	
3	5GHz UNII-1	2TX	2.30	2.50	-	-	5.41	
		4TX	2.30	2.50	3.00	3.00	8.73	
	5GHz UNII-2A	2TX	2.30	2.50	-	-	5.41	
		4TX	2.30	2.50	3.00	3.00	8.73	
	5GHz UNII-2C	2TX	2.10	2.30	-	-	5.21	
		4TX	2.10	2.30	2.80	2.90	8.55	
	5GHz UNII-3	2TX	2.10	2.30	-	-	5.21	
		4TX	2.10	2.20	2.80	2.90	8.53	

For Antenna Gain above 30 degrees:

Radio	Mode		Mini Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	6G UNII-5	2TX	-4.50	-4.30	-	-	-4.30	
		4TX	-4.50	-4.30	-4.60	-4.40	-1.44	
	6G UNII-6	2TX	-5.20	-5.00	-	-	-5.00	
		4TX	-5.20	-5.00	-5.40	-5.20	-2.19	
	6G UNII-7	2TX	-5.30	-5.10	-	-	-5.20	
		4TX	-5.30	-5.10	-5.50	-5.30	-2.29	
3	5G UNII-1	2TX	-5.70	-5.50	-	-	-5.50	
		4TX	-5.70	-5.50	-5.00	-5.00	-2.28	



For Maximum Antenna Gain Configuration:
For Directional Gain:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
1	2.4GHz	2TX	11.40	11.60	-	-	11.60	Cross-Polarized Antenna
		4TX	11.40	11.60	11.80	11.90	14.69	
2	5GHz UNII-2C	2TX	11.80	11.80	-	-	11.80	Cross-Polarized Antenna
		4TX	11.80	11.80	11.50	11.70	13.71	
	5GHz UNII-3	2TX	11.70	11.70	-	-	11.70	
		4TX	11.70	11.70	11.50	11.70	13.66	
	6GHz UNII-5	2TX	6.10	6.30	-	-	8.91	Cross-Polarized Antenna
		4TX	6.10	6.30	6.00	6.20	11.87	
	6GHz UNII-6	2TX	6.10	6.30	-	-	8.91	
		4TX	6.10	6.30	5.90	6.10	11.82	
	6GHz UNII-7	2TX	6.10	6.30	-	-	8.91	
		4TX	6.10	6.30	5.90	6.10	11.82	
3	5GHz UNII-1	2TX	10.50	10.70	-	-	11.70	Cross-Polarized Antenna
		4TX	10.50	10.70	11.20	11.20	13.92	
	5GHz UNII-2A	2TX	10.50	10.70	-	-	10.70	
		4TX	10.50	10.70	11.20	11.20	13.92	
	5GHz UNII-2C	2TX	10.30	10.50	-	-	10.50	
		4TX	10.30	10.50	11.00	11.10	13.75	
	5GHz UNII-3	2TX	10.30	10.40	-	-	10.40	
		4TX	10.30	10.40	11.00	11.10	13.72	

For Antenna Gain above 30 degrees:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	6G UNII-5	2TX	-0.70	-0.50	-	-	2.41	-
		4TX	-0.70	-0.50	-0.80	-0.60	5.32	
	6G UNII-6	2TX	-0.70	-0.50	-	-	2.41	
		4TX	-0.70	-0.50	-0.80	-0.60	5.32	
	6G UNII-7	2TX	-0.70	-0.50	-	-	2.41	
		4TX	-0.70	-0.50	-0.80	-0.60	5.32	
3	5G UNII-1	2TX	3.30	3.50	-	-	6.41	
		4TX	3.30	3.50	4.00	4.00	9.73	



Note 4: The configuration of cross-polarization antennas is shown as below.

Set	Port	MIMO with cross-polarized
1	1	Vertical
	2	Horizontal
	3	Vertical
	4	Horizontal
	5	Horizontal
	6	Vertical
	7	Vertical
	8	Horizontal

Set	Port	MIMO with cross-polarized
2	1, 5	Horizontal
	2, 6	Vertical
	3, 7	Vertical
	4, 8	Horizontal

Set	Port	MIMO with cross-polarized
4	1, 5	Vertical
	2, 6	Horizontal
	3, 7	Vertical
	4, 8	Horizontal

Set.	Point-to-Multipoint	Point-to-Point
1	Yes	Yes
2	Yes	Yes
3	Yes	No
4	Yes	Yes
5	Yes	No

Note 5: The lowest and highest antenna gain was selected for the test and recorded in this report.

The antennas were selected as below:

Frequency Band	Minimum Antenna Gain Configuration	Maximum Antenna Gain Configuration
WLAN 2.4GHz / Bluetooth / IEEE 802.15.4	Antenna Set 5	Antenna Set 4
WLAN 5GHz	Antenna Set 5 Antenna Set 1 for 30 degrees	Antenna Set 4 Antenna Set 3 for 30 degrees
WLAN 6GHz	Antenna Set 5 Antenna Set 1 for 30 degrees	Antenna Set 1 Antenna Set 5 for 30 degrees

Note 6: States antenna 6GHz transmission will be restricted per country's regulation.

**Note 7: <Scan Radio 0>****For 2.4GHz function:****For IEEE 802.11 b/g/n/VHT/ax (1TX/1RX):**

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

For 5GHz function:**For IEEE 802.11 a/n/ac/ax (1TX/1RX):**

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

For 6GHz function:**For IEEE 802.11 ax (1TX/1RX):**

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

<Radio 1>**For 2.4GHz function:****For IEEE 802.11 b/g/n/VHT/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 2>**For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

For 6GHz function:**For IEEE 802.11 ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 3>**For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**



Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 4>

For Bluetooth function (1TX/1RX):

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

For IEEE 802.15.4 function (1TX/1RX):

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

<Radio 5>

For GPS function (1RX):

Antenna set 6~7 can be used as receiving antenna, but only one of them will be used at one time.



1.3 Table for SW Information

SW	BW of 5GHz Mode (MHz)	6GHz Mode	Support Function
Catalyst	20/40/80/160	Standard Power Access Point.	AP
			CURWB P2P/P2MP Master
		-	CURWB P2MP client with radar detection
Meraki	20/40/80	Standard Power Access Point.	AP

Note: The above information was declared by manufacturer.

1.4 Table for Radio Function

Radio (R)	Support Function	WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz	BT / IEEE 802.15.4	GPS
			UNII 1~2A	UNII 2C~3			
R0 (Scan Radio)	AP	✓	✓	✓	✓	-	-
	CURWB P2P/P2MP Master	-	✓	✓	✓	-	-
	CURWB P2MP client with radar detection	-	✓	✓	-	-	-
R1	AP	✓	-	-	-	-	-
R2	AP & CURWB P2P/P2MP Master	-	-	✓	✓	-	-
	CURWB P2MP client with radar detection	-	-	✓	-	-	-
R3 (Note 1)	AP, CURWB P2P/P2MP Master & CURWB P2MP client with radar detection	-	✓	✓	-	-	-
R4	AP	-	-	-	-	✓	-
R5	AP	-	-	-	-	-	✓

Note 1: Radio 3 supports operation in 5GHz full band (UNII 1~3) or low band (UNII 1~2A).

Note 2: For WLAN 2.4GHz, R0 and R1 can't operate at the same frequency simultaneously.

For WLAN 5GHz, R0, R2 and R3 can't operate at the same frequency simultaneously.

For WLAN 6GHz, R0 and R2 can't operate at the same frequency simultaneously.

Note 3: The above information was declared by manufacturer.

1.5 Accessories

Accessories
Antenna bracket*1 (For Ant. Set 1 use)
Antenna cable*2 (For Ant. Set 1, 2&4 use)
M25 cap*4
DC jack cap*1
SMA Sealed cap*1
M25 RJ-45 Cable gland*2
Bracket (Optional)*1



1.6 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 93 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 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

<Radio 0>

For Antenna Set 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;D1D	11.90	23.02	34.92	0.50	35.42	3.48337	93	0.03205	1.00000
5.2G;D1D	11.20	18.45	29.65	0.50	30.15	1.03514	93	0.00952	1.00000
5.3G;D1D	11.20	18.59	29.79	0.18	29.97	0.99312	93	0.00914	1.00000
5.6G;D1D	11.10	17.73	28.83	0.50	29.33	0.85704	93	0.00789	1.00000
5.8G;D1D	11.10	21.84	32.94	0.50	33.44	2.20800	93	0.02031	1.00000
6.2G;D1D	6.20	19.13	25.33	0.50	25.83	0.38282	93	0.00352	1.00000
6.7G;D1D	6.10	20.24	26.34	0.50	26.84	0.48306	93	0.00444	1.00000

For Antenna Set 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;D1D	3.40	24.06	27.46	0.50	27.96	0.62517	93	0.00575	1.00000
5.2G;D1D	3.00	18.45	21.45	0.50	21.95	0.15668	93	0.00144	1.00000
5.3G;D1D	3.00	18.65	21.65	0.50	22.15	0.16406	93	0.00151	1.00000
5.6G;D1D	2.90	17.84	20.74	0.50	21.24	0.13305	93	0.00122	1.00000
5.8G;D1D	2.90	21.84	24.74	0.50	25.24	0.33420	93	0.00307	1.00000
6.2G;D1D	2.40	19.13	21.53	0.50	22.03	0.15959	93	0.00147	1.00000
6.7G;D1D	2.30	20.24	22.54	0.50	23.04	0.20137	93	0.00185	1.00000

<Radio 1>

For Antenna Set 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;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000

For Antenna Set 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;D1D	9.20	24.49	33.69	0.50	34.19	2.62422	93	0.02414	1.00000

**<Radio 2>****For Antenna Set 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)
6.2G;D1D	11.87	24.08	35.95	0.04	35.99	3.97192	93	0.03654	1.00000
6.7G;D1D	11.82	24.16	35.98	0.01	35.99	3.97192	93	0.03654	1.00000

For Antenna Set 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)
5.6G;D1D	10.80	19.11	29.91	0.06	29.97	0.99312	93	0.00914	1.00000
5.8G;D1D	13.66	29.81	43.47	0.50	43.97	24.94595	93	0.22952	1.00000

For Antenna Set 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)
5.6G;D1D	8.52	21.28	29.80	0.17	29.97	0.99312	93	0.00914	1.00000
5.8G;D1D	8.47	27.42	35.89	0.50	36.39	4.35512	93	0.04007	1.00000
6.2G;D1D	8.37	27.61	35.98	0.01	35.99	3.97192	93	0.03654	1.00000
6.7G;D1D	8.32	27.66	35.98	0.01	35.99	3.97192	93	0.03654	1.00000

<Radio 3>**For Antenna Set 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)
5.2G;D1D	13.92	21.07	34.99	0.50	35.49	3.53997	93	0.03257	1.00000
5.3G;D1D	11.20	18.74	29.94	0.03	29.97	0.99312	93	0.00914	1.00000
5.6G;D1D	11.10	18.83	29.93	0.04	29.97	0.99312	93	0.00914	1.00000
5.8G;D1D	13.72	29.92	43.64	0.50	44.14	25.94179	93	0.23868	1.00000

For Antenna Set 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)
5.2G;D1D	5.41	26.85	32.26	0.50	32.76	1.88799	93	0.01737	1.00000
5.3G;D1D	8.73	21.19	29.92	0.05	29.97	0.99312	93	0.00914	1.00000
5.6G;D1D	8.55	21.39	29.94	0.03	29.97	0.99312	93	0.00914	1.00000
5.8G;D1D	8.53	29.92	38.45	0.50	38.95	7.85236	93	0.07225	1.00000

**<Radio 4>****For Antenna Set 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;BT-LE	11.80	13.58	25.38	0.50	25.88	0.38726	93	0.00356	1.00000
2.4G;G1D (802.15.4)	11.80	13.75	25.55	0.50	26.05	0.40272	93	0.00371	1.00000

For Antenna Set 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	3.30	13.58	16.88	0.50	17.38	0.05470	93	0.00050	1.00000
2.4G;G1D (802.15.4)	3.30	13.75	17.05	0.50	17.55	0.05689	93	0.00052	1.00000



Simultaneous Transmission Analysis Mode:

Mode 1: Radio 0 WLAN 2.4GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 6GHz + Radio 3: WLAN 5GHz +
Radio 4: Bluetooth

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)	Ratio (S/Limit)
2.4G;D1D	11.90	23.02	34.92	0.50	35.42	3.48337	93	0.03205	1.00000	0.03205
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
6.7G;D1D	11.82	24.16	35.98	0.01	35.99	3.97192	93	0.03654	1.00000	0.03654
5.8G;D1D	13.72	29.92	43.64	0.50	44.14	25.94179	93	0.23868	1.00000	0.23868
2.4G;BT-LE	11.80	13.58	25.38	0.50	25.88	0.38726	93	0.00356	1.00000	0.00356
									Sum Ratio	0.33525
									Ratio Limit	1

Mode 2: Radio 0 WLAN 2.4GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 6GHz + Radio 3: WLAN 5GHz +
Radio 4: 802.15.4

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)	Ratio (S/Limit)
2.4G;D1D	11.90	23.02	34.92	0.50	35.42	3.48337	93	0.03205	1.00000	0.03205
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
6.7G;D1D	11.82	24.16	35.98	0.01	35.99	3.97192	93	0.03654	1.00000	0.03654
5.8G;D1D	13.72	29.92	43.64	0.50	44.14	25.94179	93	0.23868	1.00000	0.23868
2.4G;G1D (802.15.4)	11.80	13.75	25.55	0.50	26.05	0.40272	93	0.00371	1.00000	0.00371
									Sum Ratio	0.33540
									Ratio Limit	1



Mode 3: Radio 0 WLAN 5GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 6GHz + Radio 3: WLAN 5GHz + Radio
4: Bluetooth

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)	Ratio (S/Limit)
5.8G;D1D	11.10	21.84	32.94	0.50	33.44	2.20800	93	0.02031	1.00000	0.02031
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
6.7G;D1D	11.82	24.16	35.98	0.01	35.99	3.97192	93	0.03654	1.00000	0.03654
5.8G;D1D	13.72	29.92	43.64	0.50	44.14	25.94179	93	0.23868	1.00000	0.23868
2.4G;BT-LE	11.80	13.58	25.38	0.50	25.88	0.38726	93	0.00356	1.00000	0.00356
									Sum Ratio	0.32351
									Ratio Limit	1

Mode 4: Radio 0 WLAN 5GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 6GHz + Radio 3: WLAN 5GHz + Radio
4: 802.15.4

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)	Ratio (S/Limit)
5.8G;D1D	11.10	21.84	32.94	0.50	33.44	2.20800	93	0.02031	1.00000	0.02031
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
6.7G;D1D	11.82	24.16	35.98	0.01	35.99	3.97192	93	0.03654	1.00000	0.03654
5.8G;D1D	13.72	29.92	43.64	0.50	44.14	25.94179	93	0.23868	1.00000	0.23868
2.4G;G1D	11.80	13.75	25.55	0.50	26.05	0.40272	93	0.00371	1.00000	0.00371
									Sum Ratio	0.32366
									Ratio Limit	1



Mode 5: Radio 0 WLAN 6GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 6GHz + Radio 3: WLAN 5GHz + Radio
4: Bluetooth

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)	Ratio (S/Limit)
6.7G;D1D	6.10	20.24	26.34	0.50	26.84	0.48306	93	0.00444	1.00000	0.00444
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
6.7G;D1D	11.82	24.16	35.98	0.01	35.99	3.97192	93	0.03654	1.00000	0.03654
5.8G;D1D	13.72	29.92	43.64	0.50	44.14	25.94179	93	0.23868	1.00000	0.23868
2.4G;BT-LE	11.80	13.58	25.38	0.50	25.88	0.38726	93	0.00356	1.00000	0.00356
									Sum Ratio	0.30764
									Ratio Limit	1

Mode 6: Radio 0 WLAN 6GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 6GHz + Radio 3: WLAN 5GHz + Radio
4: 802.15.4

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)	Ratio (S/Limit)
6.7G;D1D	6.10	20.24	26.34	0.50	26.84	0.48306	93	0.00444	1.00000	0.00444
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
6.7G;D1D	11.82	24.16	35.98	0.50	36.48	4.44631	93	0.04091	1.00000	0.04091
5.8G;D1D	13.72	29.92	43.64	0.50	44.14	25.94179	93	0.23868	1.00000	0.23868
2.4G;G1D	11.80	13.75	25.55	0.50	26.05	0.40272	93	0.00371	1.00000	0.00371
									Sum Ratio	0.31216
									Ratio Limit	1



Mode 7: Radio 0 WLAN 2.4GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 5GHz / UNII 2C~3 + Radio 3: WLAN 5GHz / UNII 1~2A + Radio 4: Bluetooth

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)	Ratio (S/Limit)
2.4G;D1D	11.90	23.02	34.92	0.50	35.42	3.48337	93	0.03205	1.00000	0.03205
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
5.8G;D1D	13.66	29.81	43.47	0.50	43.97	24.94595	93	0.22952	1.00000	0.22952
5.2G;D1D	13.92	21.07	34.99	0.50	35.49	3.53997	93	0.03257	1.00000	0.03257
2.4G;BT-LE	11.80	13.58	25.38	0.50	25.88	0.38726	93	0.00356	1.00000	0.00356
									Sum Ratio	0.32212
									Ratio Limit	1

Mode 8: Radio 0 WLAN 2.4GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 5GHz / UNII 2C~3 + Radio 3: WLAN 5GHz / UNII 1~2A + Radio 4: 802.15.4

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)	Ratio (S/Limit)
2.4G;D1D	11.90	23.02	34.92	0.50	35.42	3.48337	93	0.03205	1.00000	0.03205
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
5.8G;D1D	13.66	29.81	43.47	0.50	43.97	24.94595	93	0.22952	1.00000	0.22952
5.2G;D1D	13.92	21.07	34.99	0.50	35.49	3.53997	93	0.03257	1.00000	0.03257
2.4G;G1D	11.80	13.75	25.55	0.50	26.05	0.40272	93	0.00371	1.00000	0.00371
									Sum Ratio	0.32227
									Ratio Limit	1



Mode 9: Radio 0 WLAN 5GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 5GHz / UNII 2C~3 + Radio 3: WLAN 5GHz / UNII 1~2A + Radio 4: Bluetooth

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)	Ratio (S/Limit)
5.8G;D1D	11.10	21.84	32.94	0.50	33.44	2.20800	93	0.02031	1.00000	0.02031
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
5.8G;D1D	13.66	29.81	43.47	0.50	43.97	24.94595	93	0.22952	1.00000	0.22952
5.2G;D1D	13.92	21.07	34.99	0.50	35.49	3.53997	93	0.03257	1.00000	0.03257
2.4G;BT-LE	11.80	13.58	25.38	0.50	25.88	0.38726	93	0.00356	1.00000	0.00356
									Sum Ratio	0.31038
									Ratio Limit	1

Mode 10: Radio 0 WLAN 5GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 5GHz / UNII 2C~3 + Radio 3: WLAN 5GHz / UNII 1~2A + Radio 4: 802.15.4

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)	Ratio (S/Limit)
5.8G;D1D	11.10	21.84	32.94	0.50	33.44	2.20800	93	0.02031	1.00000	0.02031
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
5.8G;D1D	13.66	29.81	43.47	0.50	43.97	24.94595	93	0.22952	1.00000	0.22952
5.2G;D1D	13.92	21.07	34.99	0.50	35.49	3.53997	93	0.03257	1.00000	0.03257
2.4G;G1D	11.80	13.75	25.55	0.50	26.05	0.40272	93	0.00371	1.00000	0.00371
									Sum Ratio	0.31053
									Ratio Limit	1



Mode 11: Radio 0 WLAN 6GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 5GHz / UNII 2C~3 + Radio 3: WLAN 5GHz / UNII 1~2A + Radio 4: Bluetooth

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)	Ratio (S/Limit)
6.7G;D1D	6.10	20.24	26.34	0.50	26.84	0.48306	93	0.00444	1.00000	0.00444
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
5.8G;D1D	13.66	29.81	43.47	0.50	43.97	24.94595	93	0.22952	1.00000	0.22952
5.2G;D1D	13.92	21.07	34.99	0.50	35.49	3.53997	93	0.03257	1.00000	0.03257
2.4G;BT-LE	11.80	13.58	25.38	0.50	25.88	0.38726	93	0.00356	1.00000	0.00356
									Sum Ratio	0.29451
									Ratio Limit	1

Mode 12: Radio 0 WLAN 6GHz + Radio 1:WLAN 2.4GHz + Radio 2: WLAN 5GHz / UNII 2C~3 + Radio 3: WLAN 5GHz / UNII 1~2A + Radio 4: 802.15.4

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)	Ratio (S/Limit)
6.7G;D1D	6.10	20.24	26.34	0.50	26.84	0.48306	93	0.00444	1.00000	0.00444
2.4G;D1D	11.40	22.34	33.74	0.50	34.24	2.65461	93	0.02442	1.00000	0.02442
5.8G;D1D	13.66	29.81	43.47	0.50	43.97	24.94595	93	0.22952	1.00000	0.22952
5.2G;D1D	13.92	21.07	34.99	0.50	35.49	3.53997	93	0.03257	1.00000	0.03257
2.4G;G1D	11.80	13.75	25.55	0.50	26.05	0.40272	93	0.00371	1.00000	0.00371
									Sum Ratio	0.29466
									Ratio Limit	1

————THE END————