RF MEASUREMENT REPORT

FCC ID:	Q9DAPIN0754
Applicant:	Hewlett Packard Enterprise
Product:	ACCESS POINT
Model No.:	APIN0754
Trademark:	Hewlett Packard Enterprise
FCC Classification:	Digital Transmission System (DTS)
FCC Rule Part(s):	Part 15 Subpart C (Section 15.247)
Result:	Complies
Received Date:	2024-03-29
Test Date:	2024-05-23 ~ 2024-07-31

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

The test results relate only to the samples tested.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2403RSU068-U11	V01	Initial Report	2024-08-01	Valid

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1. General Information

1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.3. Testing Facility

☒	**Test Site – MRT Suzhou Laboratory**				
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China **Laboratory Location (Suzhou - SIP)** 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China				
	Laboratory Accreditations				
	A2LA: 3628.01		CNAS: L10551		
	FCC: CN1166		ISED: CN0001		
	VCCI:	☐R-20025	☐G-20034	☐C-20020	☐T-20020
		☐R-20141	☐G-20134	☐C-20103	☐T-20104
☐	**Test Site – MRT Shenzhen Laboratory**				
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China				
	Laboratory Accreditations				
	A2LA: 3628.02		CNAS: L10551		
	FCC: CN1284		ISED: CN0105		
☐	**Test Site – MRT Taiwan Laboratory**				
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)				
	Laboratory Accreditations				
	TAF: 3261				
	FCC: 291082, TW3261		ISED: TW3261		

1.4. Product Information

Product Name	ACCESS POINT
Model No.	APIN0754
Serial No.	CNRXM5803V
Software Version	REL24
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	BLE only
ZigBee Specification	802.15.4
GNSS Specification	GPS, Galileo
Antenna Information	Refer to Section 1.7
Power Type	AC Adapter Input or PoE Input
Operating Environment	Indoor Use
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps

1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

1.7. Description of Operating Paths

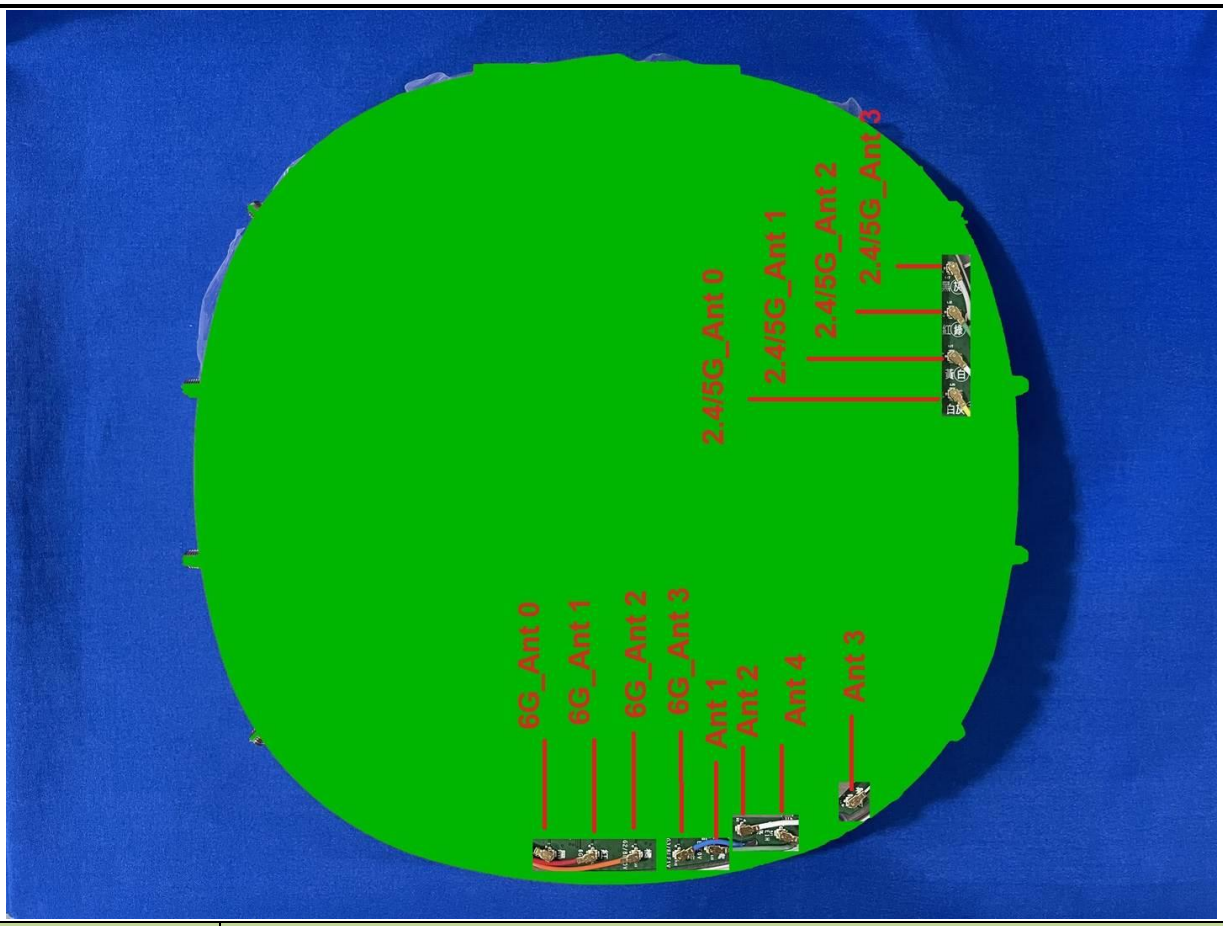
The EUT has two BLE/ZigBee radios, Core 0 and Core1, Core 0 was equipped with one antenna named Ant 1and Core 1 was equipped with two antennas named Ant 2 and Ant 4, The front end of each antenna port corresponds to three AIC filters respectively, filter 1#, 2#, 3# for Ant 1, filter 4#, 5#, 6# for Ant 4, filter 7#, 8#, 9# for Ant 2, details are as follows.

Filter	Specification	Remark
1#, 4#, 7#	Band Pass Filter (2402-2480)	Allowing any transmission on all channels
2#, 5#, 8#	Band Pass Filter (2402-2430)	Allowing transmission on BLE channels 37 (2402MHz) and 38 (2426MHz) and Zigbee channel 11 (2405MHz)
3#, 6#, 9#	Band Pass Filter (2478-2482)	Allowing transmission on BLE channel 39 (2480MHz) and Zigbee channel 26(2480MHz)

1.8. Antenna Details

Antenna Type	Wi-Fi Antenna	Frequency Band (GHz)	Antenna Gain (dBi)
PIFA	Ant 1	2.4 ~ 2.5	5.6
PIFA	Ant 2	2.4 ~ 2.5	3.3
Alford Loop	Ant 4	2.4 ~ 2.5	5.0

1.9. Description of Antenna RF Port



Antenna Port	RF Spec.			
	Wi-Fi 2.4G	Wi-Fi 5G	Wi-Fi 6G	BLE/ZigBee
Ant 1	--	--	--	● (Core 0)
Ant 2	--	--	--	● (Core 1)
Ant 3	GNSS			
Ant 4	--	--		● (Core 1)
6G_Ant 0	--	--	● (Radio 0)	--
6G_Ant 1	--	--	● (Radio 0)	--
6G_Ant 2	--	--	● (Radio 0)	--
6G_Ant 3	--	--	● (Radio 0)	--
2.4/5G_Ant 0	● (Radio 2)	● (Radio 1)	--	--
2.4/5G_Ant 1	● (Radio 2)	● (Radio 1)	--	--
2.4/5G_Ant 2	● (Radio 2)	● (Radio 1)	--	--
2.4/5G_Ant 3	● (Radio 2)	● (Radio 1)	--	--

2. Test Configuration

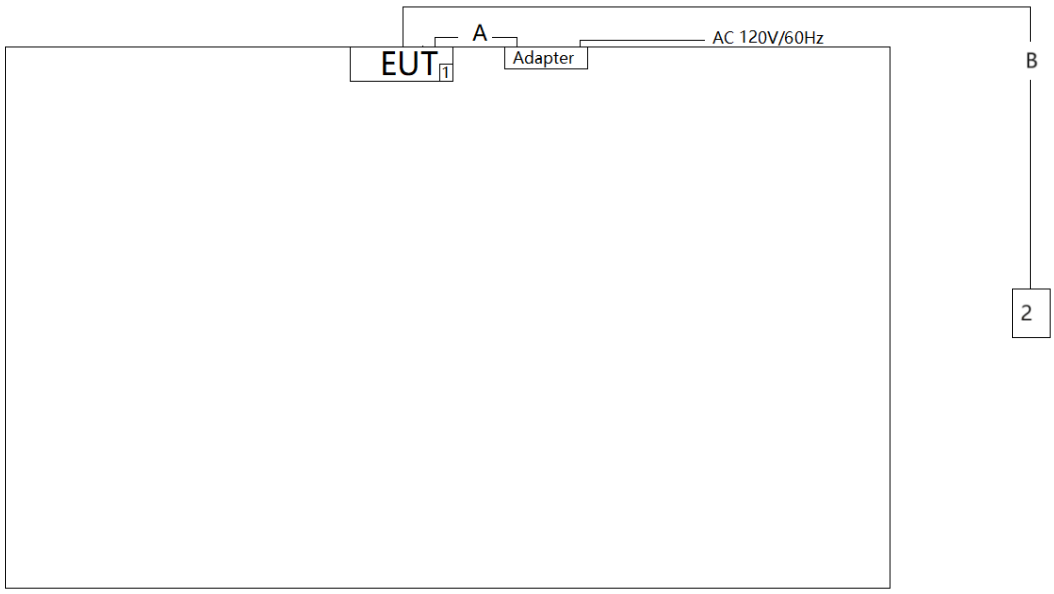
2.1. Test Mode

Mode 1: Transmit at Core 0 on Ant 1 port
Mode 2: Transmit at Core 1 on Ant 4 port
Mode 3: Transmit at Core 1 on Ant 2 port
Mode 4: Transmit at Core 0 on Ant 1 port and Core 1 on Ant 2 port
Mode 5: Transmit at Core 0 on Ant 1 port and Core 1 on Ant 4 port
Note: For simultaneous transmissions, measurements were performed in two ways. (1) with the cores set to the same output power setting, and (2) with priority of setting core 1 set to the highest compliant power in combination with core 0.

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram



No.	Cable Type	Cable Spec.	Length
A	Power Cable	Non-Shielded	1.2m
B	LAN Cable	Non-Shielded, Cat 6	>10.0m
No.	Product	Manufacturer	Model No.
1	USB Flash	SanDisk	16G
2	Notebook	DELL	Latitude 5491

2.3. Test Software

The test utility software used during testing was “telnet”, and commands were provided by the manufacturer.

2.4. Applied Standards

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

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the device is **permanently attached.**
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2024-12-21	SIP-AC1
Horn Antenna	R&S	HF907	MRTSUE06610	1 year	2025-06-12	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2024-10-28	SIP-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06645	1 year	2025-07-05	SIP-AC1
Preamplifier	MRT	AMP-AC1	MRTSUE11265	1 year	2024-11-03	SIP-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2024-09-27	SIP-AC3
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2024-07-14	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2024-10-28	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2025-01-11	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2024-12-21	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2024-11-04	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2024-12-04	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2024-10-11	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2025-05-06	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2025-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2024-11-07	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2024-05-31	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2024-05-23	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2024-05-23	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11092	1 year	2024-06-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11092	1 year	2025-06-05	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11087	1 year	2024-06-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11087	1 year	2025-06-05	WZ-SR5
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2025-05-12	WZ-SR2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2024-09-27	WZ-SR2

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software
e3	230711	RE & CE
Controller_MF 7802	2.03C	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.4dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.7%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Notes:

1. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
3. The EUT supports transmitting alone and simultaneous transmitting of the two radios, by selecting of filters, the EUT could work on the radio 0-Ant 0V and radio 1-Ant 1 V or radio 0-Ant 0V and radio 1-Ant 1 H.
4. For BLE simultaneous transmitting, the two radios could not work on the same channel due to the co-channel interference.
5. For BLE simultaneous transmitting, the output power of each port is lower than the power when in transmit alone condition, so only Radiated Emission/Band Edge were performed.
6. The test items of each filter see table below

Test Items	Filter 1# & 4# & 7#	Filter 2 # & 5# & 8#	Filter 3# & 6# & 9#
6dB Bandwidth	●	--	--
Output Power	●	●	●
Power Spectral Density	●	--	--
Band Edge / Out-of-Band Emissions	●	●	●
Radiated Spurious Emission	●	●	●
Radiated Band Edge	●	●	●
AC Conducted Emissions 150kHz - 30MHz	●	--	--

6.2. 6dB Bandwidth Measurement

6.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

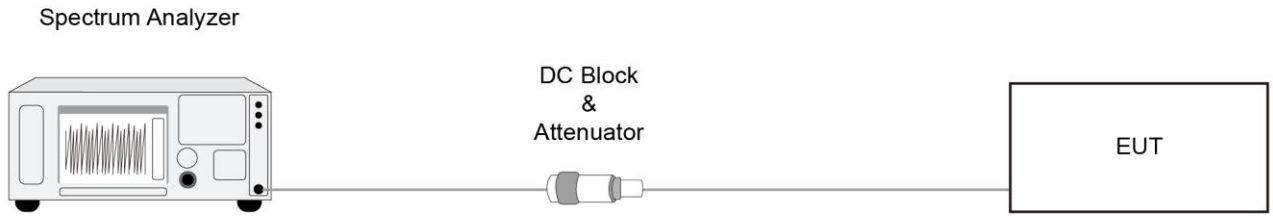
6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. Test Setting

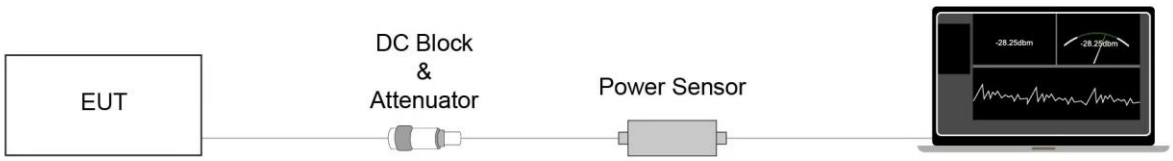
Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

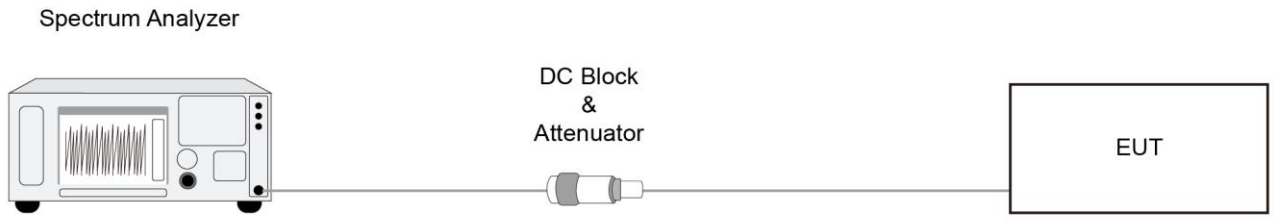
6.4.2. Test Procedure

ANSI C63.10-2013 Section 11.10.2

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Conducted Band Edge and Out-of-Band Emissions Measurement

6.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2. Test Procedure

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Settitng

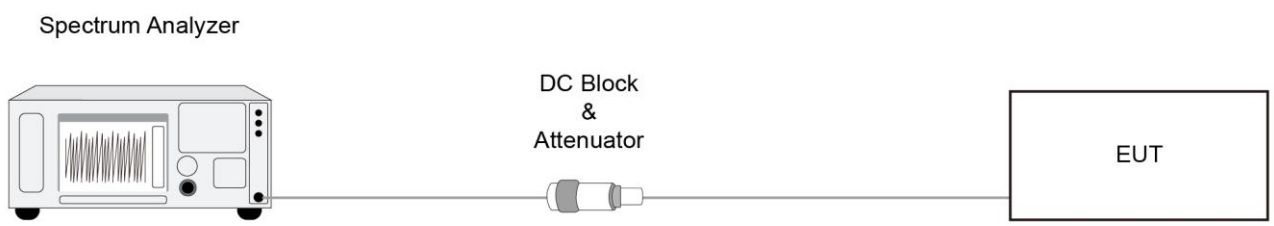
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW ≥ 3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Radiated Spurious Emission Measurement

6.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. Span was set greater than 1MHz

3. RBW = as specified in Table 1

4. Detector = CISPR quasi-peak

5. Sweep time = auto couple

6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW = 3MHz

4. Detector = peak

5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

4. Detector = Peak

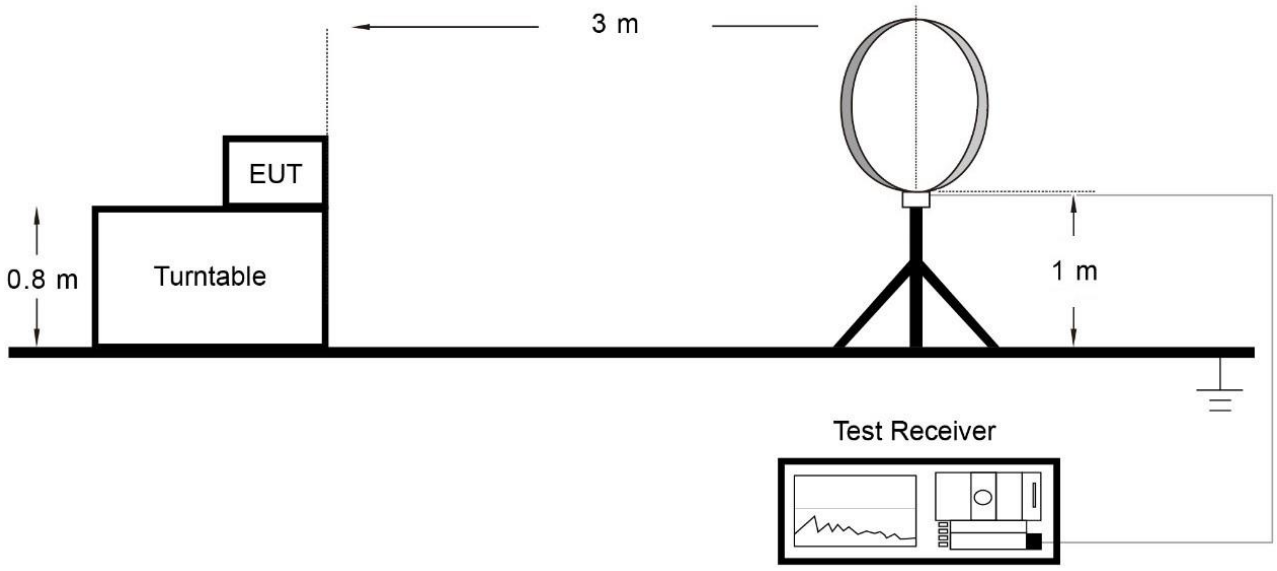
5. Sweep time = auto

6. Trace mode = max hold

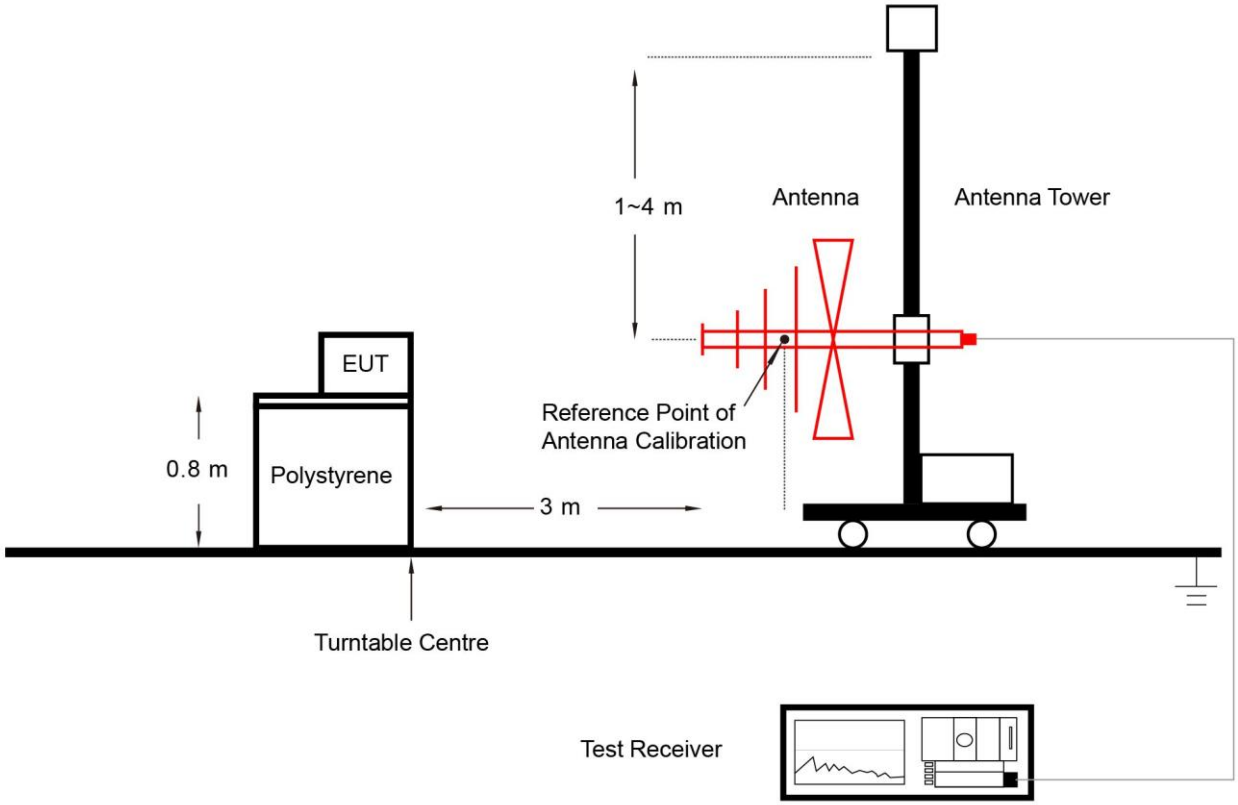
7. Trace was allowed to stabilize

6.6.4. Test Setup

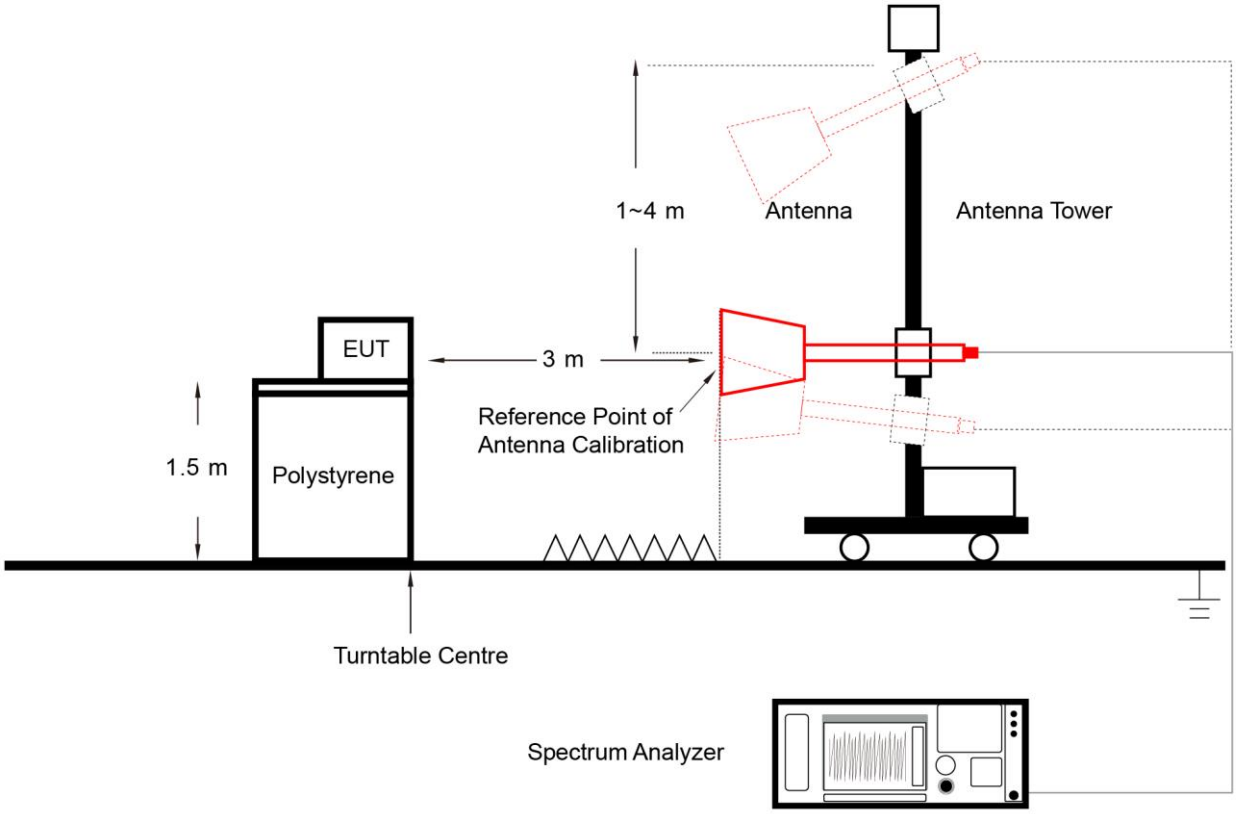
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge Measurement

6.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.7.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

6.7.3. Test Setting

Peak Field Strength Measurements

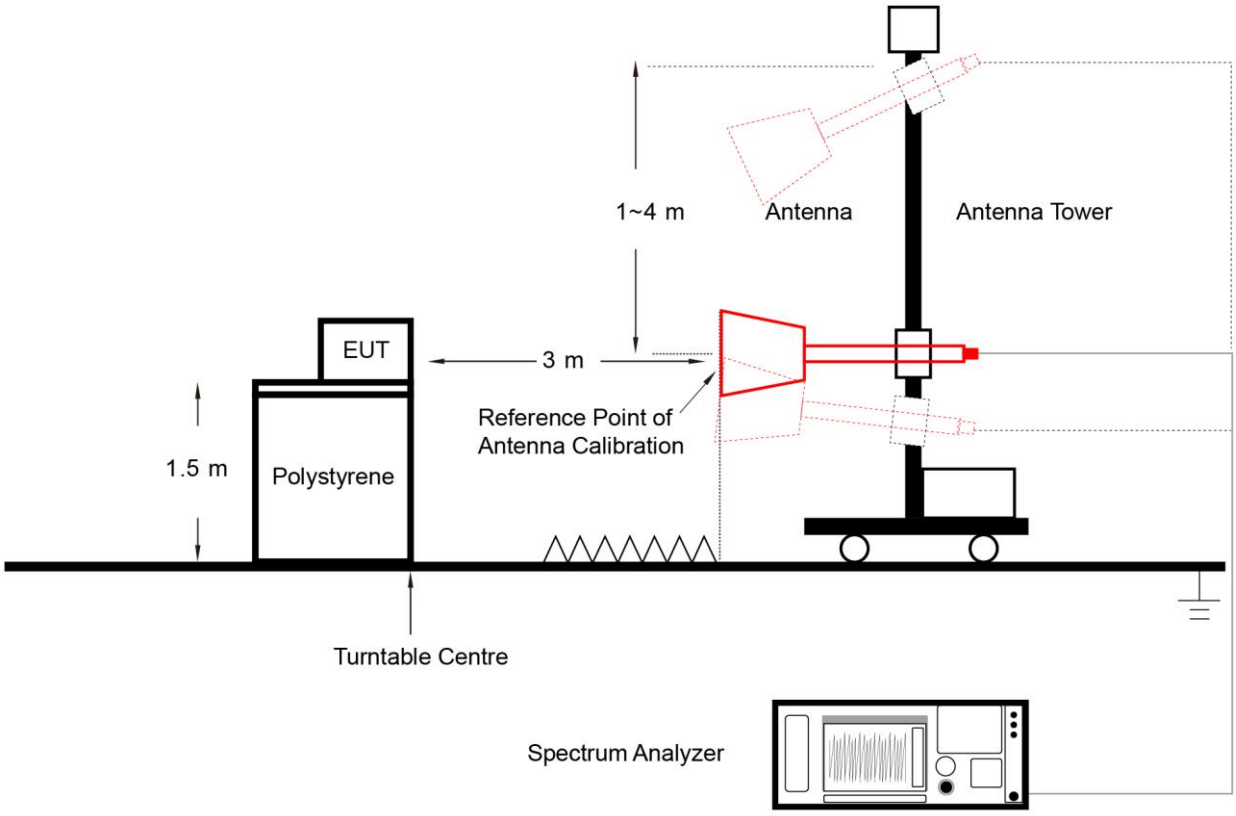
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode
5. Detector = Peak

6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5. Test Result

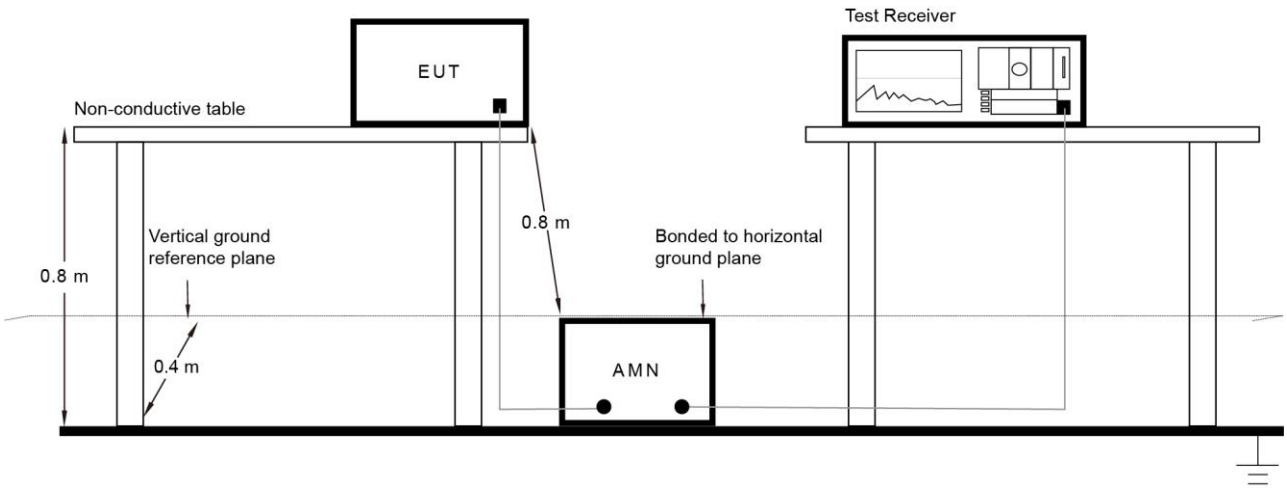
Refer to Appendix A.7.

6.8. AC Conducted Emissions Measurement

6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.		

6.8.2. Test Setup



6.8.3. Test Result

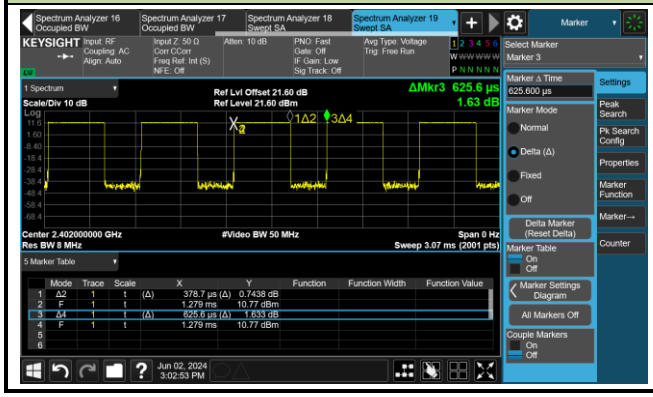
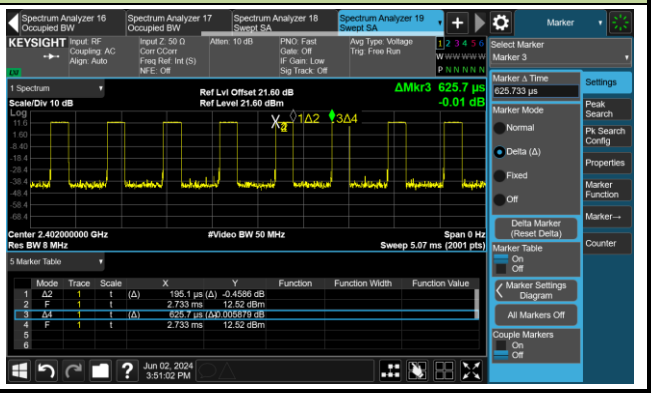
Refer to Appendix A.8.

Appendix A - Test Result

A.1 Duty Cycle Test Result

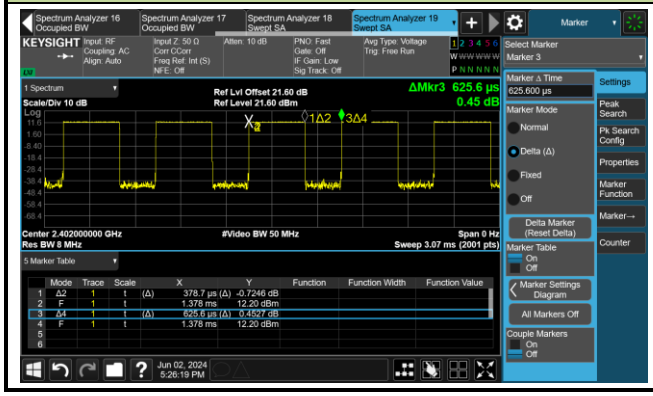
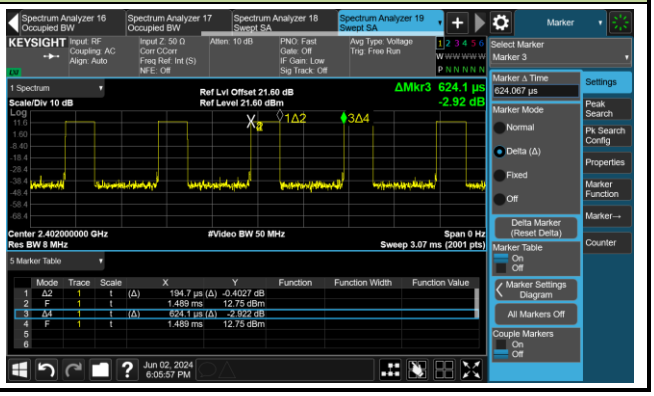
Mode 1

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

Test Mode	Duty Cycle
BLE-1Mbps	60.53%
BLE-2Mbps	31.18%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 378.7μs)	BLE-2Mbps (T = 195.1μs)
	

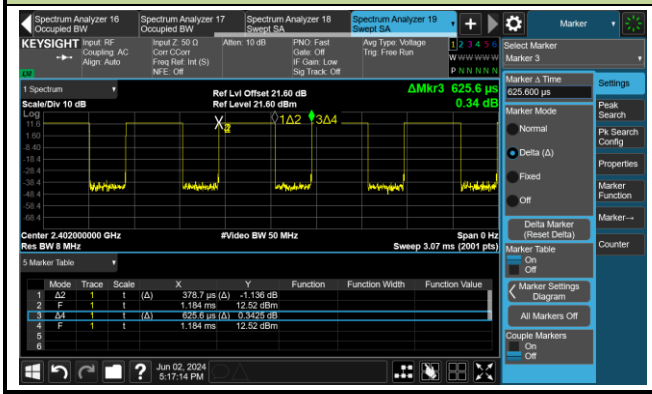
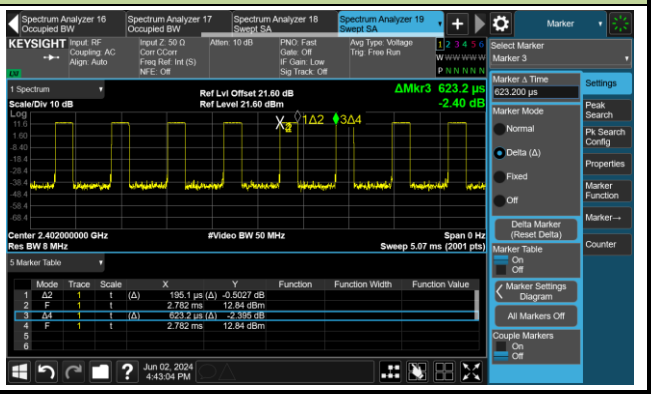
Mode 2

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

Test Mode	Duty Cycle
BLE-1Mbps	60.53%
BLE-2Mbps	31.20%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 378.7μs)	BLE-2Mbps (T = 194.7μs)
	

Mode 3

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

Test Mode	Duty Cycle
BLE-1Mbps	60.53%
BLE-2Mbps	31.13%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 377.2μs)	BLE-2Mbps (T = 194.7μs)
	

A.2 6dB Bandwidth Test Result

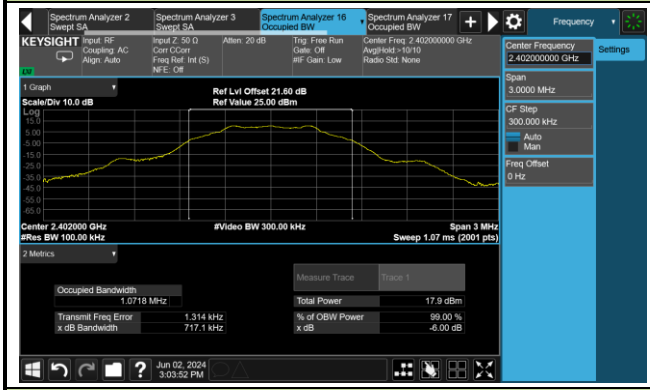
Mode 1

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.7171	≥ 0.5
BLE	1Mbps	19	2440	0.7079	≥ 0.5
BLE	1Mbps	39	2480	0.7130	≥ 0.5
BLE	2Mbps	00	2402	1.2490	≥ 0.5
BLE	2Mbps	19	2440	1.2480	≥ 0.5
BLE	2Mbps	39	2480	1.2480	≥ 0.5

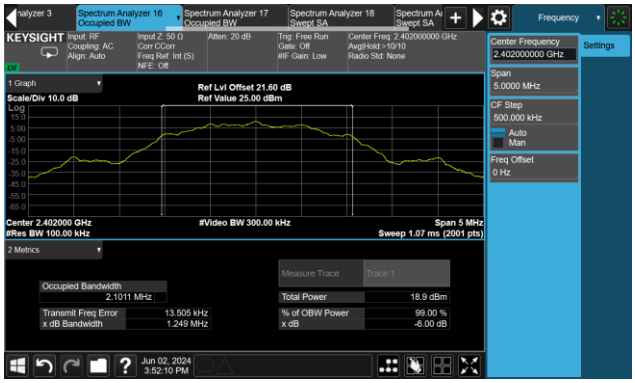
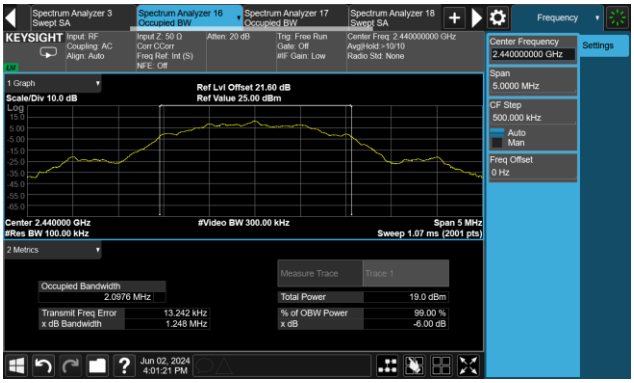
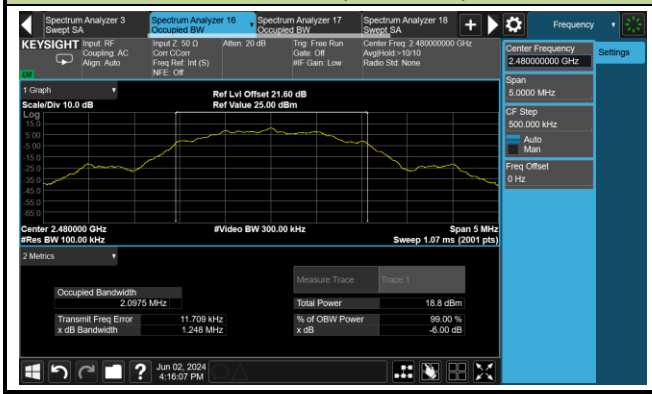
BLE-1Mbps 6dB Bandwidth

Channel 00 (2402MHz)



Channel 19 (2440MHz)

Channel 39 (2480MHz)

BLE-2Mbps 6dB Bandwidth	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

Mode 2

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

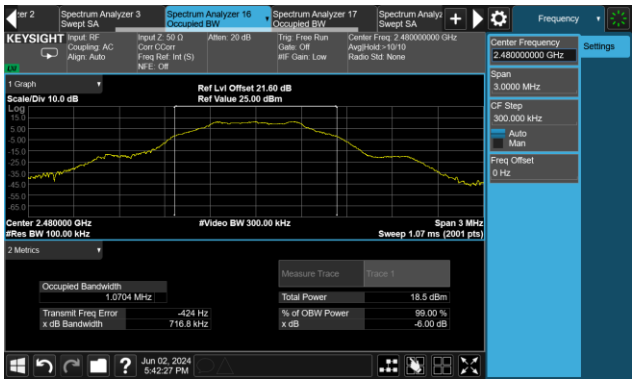
Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.7117	≥ 0.5
BLE	1Mbps	19	2440	0.7151	≥ 0.5
BLE	1Mbps	39	2480	0.7168	≥ 0.5
BLE	2Mbps	00	2402	1.2430	≥ 0.5
BLE	2Mbps	19	2440	1.2480	≥ 0.5
BLE	2Mbps	39	2480	1.2330	≥ 0.5

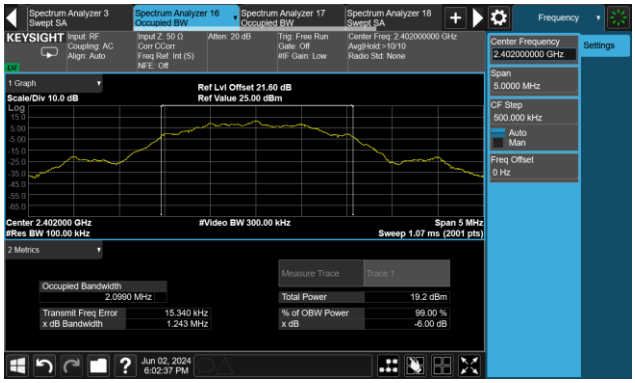
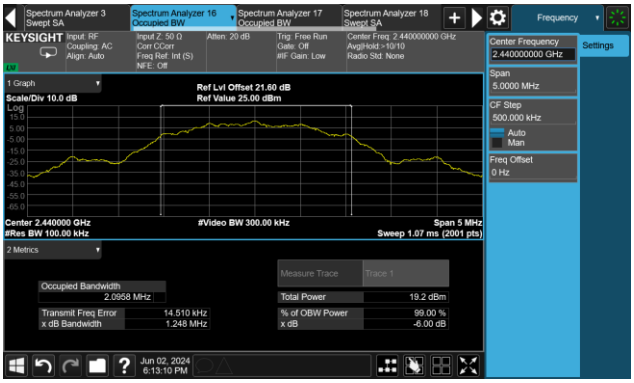
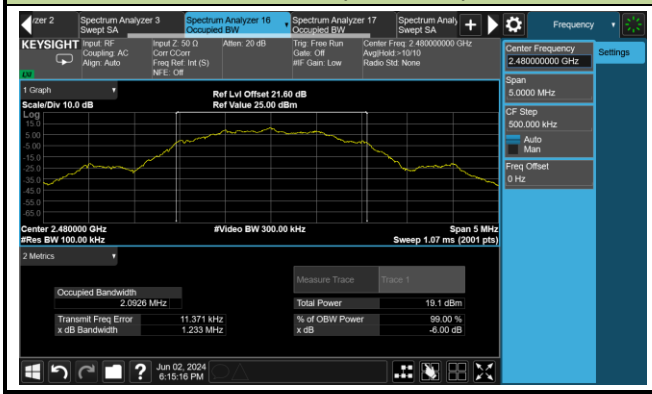
BLE-1Mbps 6dB Bandwidth

Channel 00 (2402MHz)

Channel 19 (2440MHz)

Channel 39 (2480MHz)



BLE-2Mbps 6dB Bandwidth	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

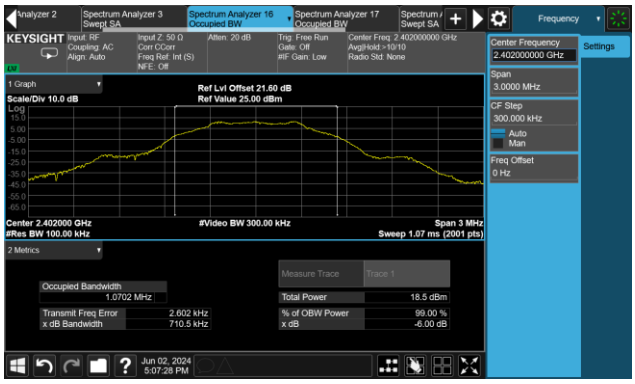
Mode 3

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

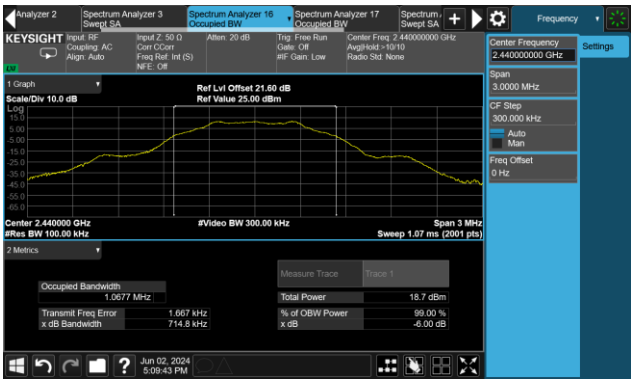
Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.7105	≥ 0.5
BLE	1Mbps	19	2440	0.7148	≥ 0.5
BLE	1Mbps	39	2480	0.7167	≥ 0.5
BLE	2Mbps	00	2402	1.2170	≥ 0.5
BLE	2Mbps	19	2440	1.2180	≥ 0.5
BLE	2Mbps	39	2480	1.2440	≥ 0.5

BLE-1Mbps 6dB Bandwidth

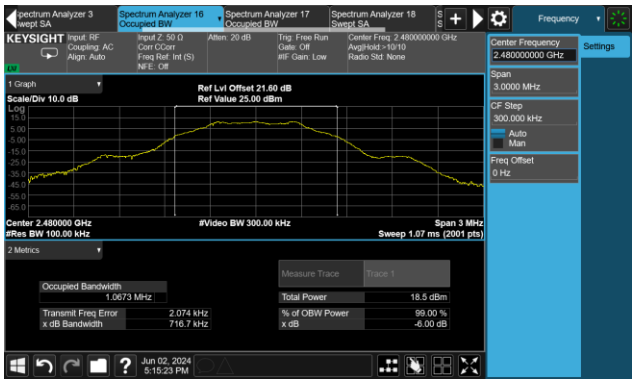
Channel 00 (2402MHz)

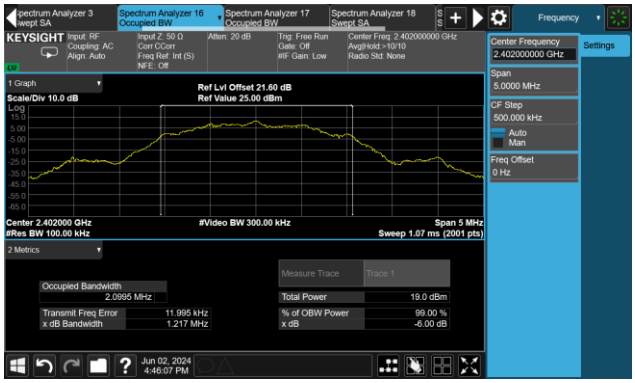
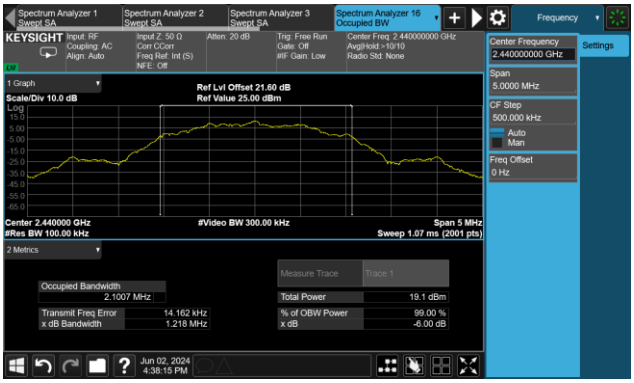
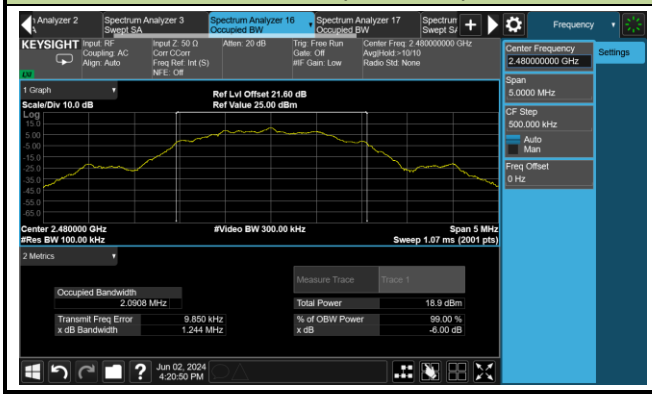


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps 6dB Bandwidth	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

A.3 Output Power Test Result

Mode 1

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-25	Filter	1#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	12.73	≤ 30.00	Pass
BLE	1Mbps	19	2440	12.93	≤ 30.00	Pass
BLE	1Mbps	39	2480	12.75	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.85	≤ 30.00	Pass
BLE	2Mbps	19	2440	13.05	≤ 30.00	Pass
BLE	2Mbps	39	2480	12.83	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	12.02	≤ 30.00	Pass
BLE	1Mbps	19	2440	12.23	≤ 30.00	Pass
BLE	1Mbps	39	2480	12.03	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.34	≤ 30.00	Pass
BLE	2Mbps	19	2440	12.51	≤ 30.00	Pass
BLE	2Mbps	39	2480	12.22	≤ 30.00	Pass

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-25	Filter	2#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	12.74	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.80	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	11.85	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.05	≤ 30.00	Pass

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-25	Filter	3#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	39	2480	11.12	≤ 30.00	Pass
BLE	2Mbps	39	2480	11.19	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	39	2480	10.33	≤ 30.00	Pass
BLE	2Mbps	39	2480	10.50	≤ 30.00	Pass

Mode 2

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-25	Filter	4#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	12.75	≤ 30.00	Pass
BLE	1Mbps	19	2440	13.20	≤ 30.00	Pass
BLE	1Mbps	39	2480	12.89	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.98	≤ 30.00	Pass
BLE	2Mbps	19	2440	13.16	≤ 30.00	Pass
BLE	2Mbps	39	2480	12.97	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	12.09	≤ 30.00	Pass
BLE	1Mbps	19	2440	12.59	≤ 30.00	Pass
BLE	1Mbps	39	2480	11.37	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.48	≤ 30.00	Pass
BLE	2Mbps	19	2440	12.68	≤ 30.00	Pass
BLE	2Mbps	39	2480	12.49	≤ 30.00	Pass

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-25	Filter	5#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	11.96	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.06	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	11.31	≤ 30.00	Pass
BLE	2Mbps	00	2402	11.56	≤ 30.00	Pass

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-25	Filter	6#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	39	2480	10.61	≤ 30.00	Pass
BLE	2Mbps	39	2480	10.67	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	39	2480	9.97	≤ 30.00	Pass
BLE	2Mbps	39	2480	10.18	≤ 30.00	Pass

Mode 3

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-25	Filter	7#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	13.09	≤ 30.00	Pass
BLE	1Mbps	19	2440	13.23	≤ 30.00	Pass
BLE	1Mbps	39	2480	12.86	≤ 30.00	Pass
BLE	2Mbps	00	2402	13.15	≤ 30.00	Pass
BLE	2Mbps	19	2440	13.35	≤ 30.00	Pass
BLE	2Mbps	39	2480	12.78	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	12.55	≤ 30.00	Pass
BLE	1Mbps	19	2440	12.73	≤ 30.00	Pass
BLE	1Mbps	39	2480	12.36	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.74	≤ 30.00	Pass
BLE	2Mbps	19	2440	12.97	≤ 30.00	Pass
BLE	2Mbps	39	2480	12.46	≤ 30.00	Pass

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-25	Filter	8#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	12.84	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.86	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	12.22	≤ 30.00	Pass
BLE	2Mbps	00	2402	12.39	≤ 30.00	Pass

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-26	Filter	9#

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	39	2480	10.92	≤ 30.00	Pass
BLE	2Mbps	39	2480	11.03	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	39	2480	10.40	≤ 30.00	Pass
BLE	2Mbps	39	2480	10.64	≤ 30.00	Pass

Mode 4

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-06-25~2024-07-10		

Test Result of Peak Output Power – Same power value of two antenna ports

Ant 1 Frequency (MHz)	Ant 2 Frequency (MHz)	Ant 1 Peak Power (dBm)	Ant 2 Peak Power (dBm)	Total Peak Power (dBm)	Limit (dBm)	Result
2402	2404	12.27	12.41	15.35	≤ 30.00	Pass
2404	2402	12.25	12.62	15.45	≤ 30.00	Pass
2440	2442	12.52	12.63	15.59	≤ 30.00	Pass
2442	2440	12.35	12.74	15.56	≤ 30.00	Pass
2468	2470	11.92	12.36	15.16	≤ 30.00	Pass
2468	2472	12.32	12.52	15.43	≤ 30.00	Pass
2468	2474	-3.13	-2.91	-0.01	≤ 30.00	Pass
2468	2476	-1.68	-1.52	1.41	≤ 30.00	Pass
2468	2478	0.29	0.55	3.43	≤ 30.00	Pass
2468	2480	7.61	7.63	10.63	≤ 30.00	Pass
2470	2468	12.25	12.52	15.40	≤ 30.00	Pass
2470	2472	12.42	12.51	15.48	≤ 30.00	Pass
2470	2474	5.97	5.93	8.96	≤ 30.00	Pass
2470	2476	-4.12	-3.98	-1.04	≤ 30.00	Pass
2470	2478	-1.98	-1.59	1.23	≤ 30.00	Pass
2470	2480	0.47	0.61	3.55	≤ 30.00	Pass
2472	2468	12.18	12.33	15.27	≤ 30.00	Pass
2472	2470	12.35	12.42	15.40	≤ 30.00	Pass
2472	2474	12.28	12.52	15.41	≤ 30.00	Pass
2472	2476	-6.13	-6.17	-3.14	≤ 30.00	Pass
2472	2478	-4.68	-4.31	-1.48	≤ 30.00	Pass
2472	2480	-2.79	-2.73	0.25	≤ 30.00	Pass
2474	2468	9.25	9.12	12.20	≤ 30.00	Pass
2474	2470	12.35	12.26	15.32	≤ 30.00	Pass
2474	2472	12.31	12.57	15.45	≤ 30.00	Pass
2474	2476	10.50	10.21	13.37	≤ 30.00	Pass
2474	2478	-6.23	-6.27	-3.24	≤ 30.00	Pass
2474	2480	-6.46	-6.44	-3.44	≤ 30.00	Pass
2476	2468	-4.44	-4.62	-1.52	≤ 30.00	Pass

Ant 1 Frequency (MHz)	Ant 2 Frequency (MHz)	Ant 1 Peak Power (dBm)	Ant 2 Peak Power (dBm)	Total Peak Power (dBm)	Limit (dBm)	Result
2476	2470	12.17	12.26	15.23	≤ 30.00	Pass
2476	2472	12.32	12.36	15.35	≤ 30.00	Pass
2476	2474	12.34	12.45	15.41	≤ 30.00	Pass
2476	2478	-2.49	-2.62	0.46	≤ 30.00	Pass
2476	2480	-4.63	-4.49	-1.55	≤ 30.00	Pass
2478	2468	-2.81	-2.89	0.16	≤ 30.00	Pass
2478	2470	-3.57	-3.48	-0.51	≤ 30.00	Pass
2478	2472	-6.32	-6.38	-3.34	≤ 30.00	Pass
2478	2474	7.48	7.47	10.49	≤ 30.00	Pass
2478	2476	11.52	11.41	14.48	≤ 30.00	Pass
2478	2480	-11.83	-12.18	-8.99	≤ 30.00	Pass
2480	2468	0.38	0.28	3.34	≤ 30.00	Pass
2480	2470	-3.65	-3.48	-0.55	≤ 30.00	Pass
2480	2472	-4.38	-4.46	-1.41	≤ 30.00	Pass
2480	2474	-7.16	-7.08	-4.11	≤ 30.00	Pass
2480	2476	-10.53	-10.65	-7.58	≤ 30.00	Pass
2480	2478	5.46	5.43	8.46	≤ 30.00	Pass

Note: Total Peak Power (dBm) = 10*log {$10^{(\text{Ant 1 Peak Power /10})}$ +$10^{(\text{Ant 2 Peak Power /10})}$} (dBm).

Test Result of Average Output Power – Same power value of two antenna ports

Ant 1 Frequency (MHz)	Ant 2 Frequency (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
2402	2404	11.40	11.84	14.64	≤ 30.00	Pass
2404	2402	11.38	12.00	14.71	≤ 30.00	Pass
2440	2442	11.66	12.09	14.89	≤ 30.00	Pass
2442	2440	11.62	12.11	14.88	≤ 30.00	Pass
2468	2470	11.10	11.79	14.47	≤ 30.00	Pass
2468	2472	11.56	12.01	14.80	≤ 30.00	Pass
2468	2474	-3.40	-3.33	-0.35	≤ 30.00	Pass
2468	2476	-1.90	-1.87	1.13	≤ 30.00	Pass
2468	2478	-0.07	0.15	3.05	≤ 30.00	Pass
2468	2480	7.11	7.26	10.20	≤ 30.00	Pass
2470	2468	11.42	11.94	14.70	≤ 30.00	Pass
2470	2472	11.55	12.01	14.80	≤ 30.00	Pass
2470	2474	5.48	5.53	8.52	≤ 30.00	Pass
2470	2476	-4.39	-4.41	-1.39	≤ 30.00	Pass
2470	2478	-2.17	-1.97	0.94	≤ 30.00	Pass
2470	2480	0.12	0.23	3.19	≤ 30.00	Pass
2472	2468	11.34	11.77	14.57	≤ 30.00	Pass
2472	2470	11.51	11.87	14.70	≤ 30.00	Pass
2472	2474	11.51	11.95	14.75	≤ 30.00	Pass
2472	2476	-6.56	-6.74	-3.64	≤ 30.00	Pass
2472	2478	-4.98	-4.84	-1.90	≤ 30.00	Pass
2472	2480	-3.04	-3.12	-0.07	≤ 30.00	Pass
2474	2468	8.43	8.52	11.49	≤ 30.00	Pass
2474	2470	11.49	11.73	14.62	≤ 30.00	Pass
2474	2472	11.52	11.93	14.74	≤ 30.00	Pass
2474	2476	9.49	9.61	12.56	≤ 30.00	Pass
2474	2478	-6.65	-6.76	-3.69	≤ 30.00	Pass
2474	2480	-6.94	-6.96	-3.94	≤ 30.00	Pass
2476	2468	-4.72	-5.07	-1.88	≤ 30.00	Pass
2476	2470	11.33	11.69	14.52	≤ 30.00	Pass
2476	2472	11.51	11.81	14.67	≤ 30.00	Pass
2476	2474	11.55	11.91	14.74	≤ 30.00	Pass
2476	2478	-2.77	-3.04	0.11	≤ 30.00	Pass
2476	2480	-4.94	-5.02	-1.97	≤ 30.00	Pass

Ant 1 Frequency (MHz)	Ant 2 Frequency (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
2478	2468	-3.05	-3.33	-0.18	≤ 30.00	Pass
2478	2470	-3.79	-3.92	-0.84	≤ 30.00	Pass
2478	2472	-6.74	-6.93	-3.82	≤ 30.00	Pass
2478	2474	7.04	7.06	10.06	≤ 30.00	Pass
2478	2476	10.61	10.82	13.73	≤ 30.00	Pass
2478	2480	-13.59	-13.87	-10.72	≤ 30.00	Pass
2480	2468	0.08	-0.11	3.00	≤ 30.00	Pass
2480	2470	-3.92	-3.94	-0.92	≤ 30.00	Pass
2480	2472	-4.72	-4.99	-1.84	≤ 30.00	Pass
2480	2474	-7.66	-7.72	-4.68	≤ 30.00	Pass
2480	2476	-11.58	-11.92	-8.74	≤ 30.00	Pass
2480	2478	5.00	5.01	8.02	≤ 30.00	Pass

Note: Total Average Power (dBm) = 10*log {$10^{(\text{Ant 1 Average Power /10})}$ +$10^{(\text{Ant 2 Average Power /10})}$} (dBm).

Test Result of Peak Output Power – Different power value of two antenna ports

Ant 1 Frequency (MHz)	Ant 2 Frequency (MHz)	Ant 1 Peak Power (dBm)	Ant 2 Peak Power (dBm)	Total Peak Power (dBm)	Limit (dBm)	Result
2468	2474	-1.47	12.57	12.74	≤ 30.00	Pass
2468	2476	-1.48	11.71	11.91	≤ 30.00	Pass
2468	2478	-0.21	11.63	11.91	≤ 30.00	Pass
2468	2480	1.62	11.64	12.05	≤ 30.00	Pass
2470	2474	4.81	12.51	13.19	≤ 30.00	Pass
2470	2476	-3.23	12.61	12.72	≤ 30.00	Pass
2470	2478	-2.34	12.52	12.66	≤ 30.00	Pass
2470	2480	-1.49	12.61	12.78	≤ 30.00	Pass
2472	2476	-5.12	12.47	12.54	≤ 30.00	Pass
2472	2478	-5.89	12.51	12.57	≤ 30.00	Pass
2472	2480	-3.26	11.43	11.58	≤ 30.00	Pass
2474	2468	10.48	12.38	14.54	≤ 30.00	Pass
2474	2476	10.61	12.41	14.61	≤ 30.00	Pass
2474	2478	-7.28	12.58	12.62	≤ 30.00	Pass
2474	2480	-3.44	9.31	9.53	≤ 30.00	Pass
2476	2468	-3.98	10.49	10.64	≤ 30.00	Pass
2476	2478	-2.22	12.47	12.62	≤ 30.00	Pass
2476	2480	-8.64	7.67	7.77	≤ 30.00	Pass
2478	2468	-0.23	12.61	12.83	≤ 30.00	Pass
2478	2470	-0.96	10.76	11.04	≤ 30.00	Pass
2478	2472	-2.67	12.86	12.98	≤ 30.00	Pass
2478	2474	12.66	11.79	15.26	≤ 30.00	Pass
2478	2476	12.64	12.81	15.74	≤ 30.00	Pass
2478	2480	-9.78	0.42	0.82	≤ 30.00	Pass
2480	2468	-1.98	12.68	12.83	≤ 30.00	Pass
2480	2470	-1.81	11.82	12.00	≤ 30.00	Pass
2480	2472	-1.89	11.85	12.03	≤ 30.00	Pass
2480	2474	-3.01	12.81	12.92	≤ 30.00	Pass
2480	2476	-8.63	12.89	12.92	≤ 30.00	Pass
2480	2478	0.45	12.68	12.93	≤ 30.00	Pass

Note: Total Peak Power (dBm) = $10*\log \{10^{(\text{Ant 1 Peak Power}/10)} + 10^{(\text{Ant 2 Peak Power}/10)}\}$ (dBm).

Test Result of Average Output Power – Different power value of two antenna ports

Ant 1 Frequency (MHz)	Ant 2 Frequency (MHz)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
2468	2474	-1.92	11.99	12.16	≤ 30.00	Pass
2468	2476	-1.88	11.09	11.30	≤ 30.00	Pass
2468	2478	-0.76	11.03	11.31	≤ 30.00	Pass
2468	2480	1.21	11.03	11.46	≤ 30.00	Pass
2470	2474	4.26	11.96	12.64	≤ 30.00	Pass
2470	2476	-3.77	12.04	12.15	≤ 30.00	Pass
2470	2478	-2.90	12.01	12.15	≤ 30.00	Pass
2470	2480	-1.89	12.05	12.22	≤ 30.00	Pass
2472	2476	-5.74	11.91	11.98	≤ 30.00	Pass
2472	2478	-6.67	11.93	11.99	≤ 30.00	Pass
2472	2480	-3.83	10.85	11.00	≤ 30.00	Pass
2474	2468	9.58	11.83	13.86	≤ 30.00	Pass
2474	2476	9.71	11.85	13.92	≤ 30.00	Pass
2474	2478	-8.22	12.01	12.05	≤ 30.00	Pass
2474	2480	-3.83	8.69	8.93	≤ 30.00	Pass
2476	2468	-4.47	9.88	10.04	≤ 30.00	Pass
2476	2478	-2.73	11.91	12.06	≤ 30.00	Pass
2476	2480	-9.67	7.29	7.38	≤ 30.00	Pass
2478	2468	-0.75	12.01	12.23	≤ 30.00	Pass
2478	2470	-1.59	10.13	10.41	≤ 30.00	Pass
2478	2472	-3.23	12.31	12.43	≤ 30.00	Pass
2478	2474	11.86	11.21	14.56	≤ 30.00	Pass
2478	2476	11.85	12.28	15.08	≤ 30.00	Pass
2478	2480	-10.77	0.03	0.38	≤ 30.00	Pass
2480	2468	-2.39	12.15	12.30	≤ 30.00	Pass
2480	2470	-2.25	11.23	11.42	≤ 30.00	Pass
2480	2472	-2.29	11.26	11.45	≤ 30.00	Pass
2480	2474	-3.57	12.31	12.42	≤ 30.00	Pass
2480	2476	-9.83	12.34	12.37	≤ 30.00	Pass
2480	2478	0.06	12.15	12.41	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10*\log \{10^{(\text{Ant 1 Average Power /10})} + 10^{(\text{Ant 2 Average Power /10})}\}$ (dBm).

Mode 5

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-06-25~2024-07-10		

Test Result of Peak Output Power – Same power value of two antenna ports

Ant 1 Frequency (MHz)	Ant 4 Frequency (MHz)	Ant 1 Peak Power (dBm)	Ant 4 Peak Power (dBm)	Total Peak Power (dBm)	Limit (dBm)	Result
2402	2404	12.33	12.71	15.53	≤ 30.00	Pass
2404	2402	12.62	12.85	15.75	≤ 30.00	Pass
2440	2442	12.87	13.03	15.96	≤ 30.00	Pass
2442	2440	12.87	12.93	15.91	≤ 30.00	Pass
2468	2470	12.62	12.97	15.81	≤ 30.00	Pass
2468	2472	12.61	12.81	15.72	≤ 30.00	Pass
2468	2474	-2.50	-1.94	0.80	≤ 30.00	Pass
2468	2476	-1.08	-0.48	2.24	≤ 30.00	Pass
2468	2478	1.25	1.84	4.57	≤ 30.00	Pass
2468	2480	7.83	8.04	10.95	≤ 30.00	Pass
2470	2468	12.52	12.86	15.70	≤ 30.00	Pass
2470	2472	12.65	12.86	15.77	≤ 30.00	Pass
2470	2474	5.78	6.18	8.99	≤ 30.00	Pass
2470	2476	-3.68	-3.21	-0.43	≤ 30.00	Pass
2470	2478	-1.27	-0.59	2.09	≤ 30.00	Pass
2470	2480	-0.01	0.51	3.27	≤ 30.00	Pass
2472	2468	12.47	12.71	15.60	≤ 30.00	Pass
2472	2470	12.57	12.73	15.66	≤ 30.00	Pass
2472	2474	12.63	12.87	15.76	≤ 30.00	Pass
2472	2476	0.48	0.69	3.60	≤ 30.00	Pass
2472	2478	-2.97	-2.51	0.28	≤ 30.00	Pass
2472	2480	-1.59	-1.26	1.59	≤ 30.00	Pass
2474	2468	8.39	8.36	11.39	≤ 30.00	Pass
2474	2470	12.65	12.71	15.69	≤ 30.00	Pass
2474	2472	12.62	12.74	15.69	≤ 30.00	Pass
2474	2476	8.89	9.05	11.98	≤ 30.00	Pass
2474	2478	-9.86	-9.52	-6.68	≤ 30.00	Pass
2474	2480	-4.93	-4.66	-1.78	≤ 30.00	Pass
2476	2468	-2.79	-2.48	0.38	≤ 30.00	Pass

Ant 1 Frequency (MHz)	Ant 4 Frequency (MHz)	Ant 1 Peak Power (dBm)	Ant 4 Peak Power (dBm)	Total Peak Power (dBm)	Limit (dBm)	Result
2476	2470	7.84	7.87	10.87	≤ 30.00	Pass
2476	2472	12.58	12.75	15.68	≤ 30.00	Pass
2476	2474	12.63	12.71	15.68	≤ 30.00	Pass
2476	2478	1.53	1.78	4.67	≤ 30.00	Pass
2476	2480	-6.32	-6.04	-3.17	≤ 30.00	Pass
2478	2468	-4.04	-3.66	-0.84	≤ 30.00	Pass
2478	2470	-5.14	-4.86	-1.99	≤ 30.00	Pass
2478	2472	-6.71	-6.21	-3.44	≤ 30.00	Pass
2478	2474	8.41	8.23	11.33	≤ 30.00	Pass
2478	2476	12.49	12.68	15.60	≤ 30.00	Pass
2478	2480	-11.89	-11.91	-8.89	≤ 30.00	Pass
2480	2468	-1.27	-0.89	1.93	≤ 30.00	Pass
2480	2470	-2.89	-2.69	0.22	≤ 30.00	Pass
2480	2472	-5.18	-4.78	-1.97	≤ 30.00	Pass
2480	2474	-7.51	-7.32	-4.40	≤ 30.00	Pass
2480	2476	-9.95	-9.89	-6.91	≤ 30.00	Pass
2480	2478	2.42	2.51	5.48	≤ 30.00	Pass

Note: Total Peak Power (dBm) = 10*log {$10^{(\text{Ant 1 Peak Power /10})}$ +$10^{(\text{Ant 4 Peak Power /10})}$} (dBm).

Test Result of Average Output Power – Same power value of two antenna ports

Ant 1 Frequency (MHz)	Ant 4 Frequency (MHz)	Ant 1 Average Power (dBm)	Ant 4 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
2402	2404	11.43	11.94	14.70	≤ 30.00	Pass
2404	2402	11.70	12.08	14.90	≤ 30.00	Pass
2440	2442	12.02	12.28	15.16	≤ 30.00	Pass
2442	2440	11.97	12.18	15.09	≤ 30.00	Pass
2468	2470	11.74	12.20	14.99	≤ 30.00	Pass
2468	2472	11.72	12.09	14.92	≤ 30.00	Pass
2468	2474	-3.09	-2.57	0.19	≤ 30.00	Pass
2468	2476	-1.67	-1.09	1.64	≤ 30.00	Pass
2468	2478	0.91	1.37	4.16	≤ 30.00	Pass
2468	2480	7.29	7.42	10.37	≤ 30.00	Pass
2470	2468	11.67	12.11	14.91	≤ 30.00	Pass
2470	2472	11.77	12.13	14.96	≤ 30.00	Pass
2470	2474	5.31	5.62	8.48	≤ 30.00	Pass
2470	2476	-4.07	-3.65	-0.84	≤ 30.00	Pass
2470	2478	-1.63	-1.08	1.66	≤ 30.00	Pass
2470	2480	-0.36	0.03	2.85	≤ 30.00	Pass
2472	2468	11.61	11.93	14.78	≤ 30.00	Pass
2472	2470	11.71	11.98	14.86	≤ 30.00	Pass
2472	2474	11.71	12.09	14.91	≤ 30.00	Pass
2472	2476	0.20	0.31	3.27	≤ 30.00	Pass
2472	2478	-3.26	-2.94	-0.09	≤ 30.00	Pass
2472	2480	-1.87	-1.66	1.25	≤ 30.00	Pass
2474	2468	7.56	7.58	10.58	≤ 30.00	Pass
2474	2470	11.76	11.94	14.86	≤ 30.00	Pass
2474	2472	11.71	11.98	14.86	≤ 30.00	Pass
2474	2476	8.11	8.14	11.14	≤ 30.00	Pass
2474	2478	-10.78	-11.07	-7.91	≤ 30.00	Pass
2474	2480	-5.26	-5.19	-2.21	≤ 30.00	Pass
2476	2468	-3.07	-2.94	0.01	≤ 30.00	Pass
2476	2470	7.33	7.31	10.33	≤ 30.00	Pass
2476	2472	11.70	12.01	14.87	≤ 30.00	Pass
2476	2474	11.74	11.92	14.84	≤ 30.00	Pass
2476	2478	1.25	1.35	4.31	≤ 30.00	Pass
2476	2480	-6.72	-6.58	-3.64	≤ 30.00	Pass

Ant 1 Frequency (MHz)	Ant 4 Frequency (MHz)	Ant 1 Average Power (dBm)	Ant 4 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
2478	2468	-4.37	-4.14	-1.24	≤ 30.00	Pass
2478	2470	-5.54	-5.42	-2.47	≤ 30.00	Pass
2478	2472	-7.25	-6.86	-4.04	≤ 30.00	Pass
2478	2474	7.59	7.47	10.54	≤ 30.00	Pass
2478	2476	11.62	11.88	14.76	≤ 30.00	Pass
2478	2480	-13.98	-14.09	-11.02	≤ 30.00	Pass
2480	2468	-1.62	-1.36	1.52	≤ 30.00	Pass
2480	2470	-3.21	-3.16	-0.17	≤ 30.00	Pass
2480	2472	-5.59	-5.34	-2.45	≤ 30.00	Pass
2480	2474	-8.09	-7.97	-5.02	≤ 30.00	Pass
2480	2476	-10.93	-10.85	-7.88	≤ 30.00	Pass
2480	2478	2.17	2.11	5.15	≤ 30.00	Pass

Note: Total Average Power (dBm) = 10*log {$10^{(\text{Ant 1 Average Power /10})}$ +$10^{(\text{Ant 4 Average Power /10})}$} (dBm).

Test Result of Peak Output Power – Different power value of two antenna ports

Ant 1 Frequency (MHz)	Ant 4 Frequency (MHz)	Ant 1 Peak Power (dBm)	Ant 4 Peak Power (dBm)	Total Peak Power (dBm)	Limit (dBm)	Result
2468	2474	-2.63	13.08	13.20	≤ 30.00	Pass
2468	2476	-1.57	6.31	6.97	≤ 30.00	Pass
2468	2478	0.84	7.91	8.69	≤ 30.00	Pass
2468	2480	12.72	12.31	15.53	≤ 30.00	Pass
2470	2474	6.14	13.23	14.01	≤ 30.00	Pass
2470	2476	-2.64	13.15	13.26	≤ 30.00	Pass
2470	2478	-2.23	7.94	8.34	≤ 30.00	Pass
2470	2480	1.08	7.88	8.70	≤ 30.00	Pass
2472	2476	-5.05	13.18	13.24	≤ 30.00	Pass
2472	2478	-1.77	6.87	7.43	≤ 30.00	Pass
2472	2480	-0.74	8.72	9.19	≤ 30.00	Pass
2474	2468	10.61	8.03	12.52	≤ 30.00	Pass
2474	2476	-0.69	13.21	13.38	≤ 30.00	Pass
2474	2478	-5.64	13.08	13.14	≤ 30.00	Pass
2474	2480	-2.79	8.01	8.36	≤ 30.00	Pass
2476	2468	-2.09	8.68	9.03	≤ 30.00	Pass
2476	2470	12.75	8.01	14.01	≤ 30.00	Pass
2476	2478	2.54	11.68	12.18	≤ 30.00	Pass
2476	2480	-2.68	7.33	7.74	≤ 30.00	Pass
2478	2468	-0.93	8.67	9.12	≤ 30.00	Pass
2478	2470	-2.89	7.86	8.21	≤ 30.00	Pass
2478	2472	-3.23	7.84	8.17	≤ 30.00	Pass
2478	2474	12.68	7.83	13.91	≤ 30.00	Pass
2478	2480	-8.49	8.74	8.82	≤ 30.00	Pass
2480	2468	-1.58	8.72	9.11	≤ 30.00	Pass
2480	2470	-2.16	8.63	8.98	≤ 30.00	Pass
2480	2472	-2.35	8.69	9.02	≤ 30.00	Pass
2480	2474	-4.63	8.63	8.83	≤ 30.00	Pass
2480	2476	-6.59	8.68	8.81	≤ 30.00	Pass
2480	2478	12.66	7.92	13.92	≤ 30.00	Pass

Note: Total Peak Power (dBm) = $10*\log \{10^{(\text{Ant 1 Peak Power /10})} + 10^{(\text{Ant 4 Peak Power /10})}\}$ (dBm).

Test Result of Average Output Power – Different power value of two antenna ports

Ant 1 Frequency (MHz)	Ant 4 Frequency (MHz)	Ant 1 Average Power (dBm)	Ant 4 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
2468	2474	-3.12	12.43	12.55	≤ 30.00	Pass
2468	2476	-1.89	5.76	6.45	≤ 30.00	Pass
2468	2478	0.49	7.38	8.19	≤ 30.00	Pass
2468	2480	11.93	11.59	14.77	≤ 30.00	Pass
2470	2474	5.61	12.61	13.40	≤ 30.00	Pass
2470	2476	-3.18	12.54	12.65	≤ 30.00	Pass
2470	2478	-2.57	7.44	7.85	≤ 30.00	Pass
2470	2480	0.71	7.37	8.22	≤ 30.00	Pass
2472	2476	-5.73	12.53	12.59	≤ 30.00	Pass
2472	2478	-2.21	6.36	6.93	≤ 30.00	Pass
2472	2480	-1.01	8.24	8.73	≤ 30.00	Pass
2474	2468	9.80	7.43	11.79	≤ 30.00	Pass
2474	2476	-1.09	12.58	12.76	≤ 30.00	Pass
2474	2478	-6.43	12.51	12.57	≤ 30.00	Pass
2474	2480	-3.21	7.48	7.84	≤ 30.00	Pass
2476	2468	-2.68	8.22	8.56	≤ 30.00	Pass
2476	2470	12.02	7.53	13.34	≤ 30.00	Pass
2476	2478	2.15	10.94	11.48	≤ 30.00	Pass
2476	2480	-3.04	6.81	7.24	≤ 30.00	Pass
2478	2468	-1.24	8.19	8.66	≤ 30.00	Pass
2478	2470	-3.36	7.37	7.72	≤ 30.00	Pass
2478	2472	-3.72	7.31	7.64	≤ 30.00	Pass
2478	2474	11.93	7.07	13.16	≤ 30.00	Pass
2478	2480	-9.37	8.27	8.34	≤ 30.00	Pass
2480	2468	-2.09	8.22	8.61	≤ 30.00	Pass
2480	2470	-2.73	8.15	8.49	≤ 30.00	Pass
2480	2472	-2.77	8.19	8.52	≤ 30.00	Pass
2480	2474	-5.15	8.17	8.37	≤ 30.00	Pass
2480	2476	-7.24	8.22	8.34	≤ 30.00	Pass
2480	2478	11.92	7.11	13.16	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10*\log \{10^{(\text{Ant 1 Average Power /10})} + 10^{(\text{Ant 4 Average Power /10})}\}$ (dBm).

A.4 Power Spectral Density Test Result

Mode 1

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

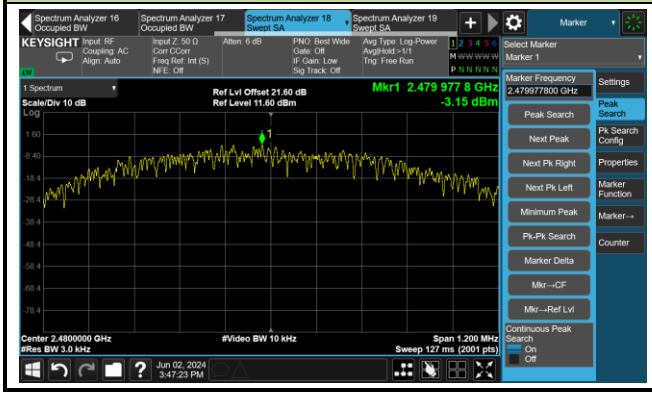
Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-3.64	≤ 8.00	Pass
BLE	1Mbps	19	2440	-3.42	≤ 8.00	Pass
BLE	1Mbps	39	2480	-3.15	≤ 8.00	Pass
BLE	2Mbps	00	2402	-5.43	≤ 8.00	Pass
BLE	2Mbps	19	2440	-5.33	≤ 8.00	Pass
BLE	2Mbps	39	2480	-5.56	≤ 8.00	Pass

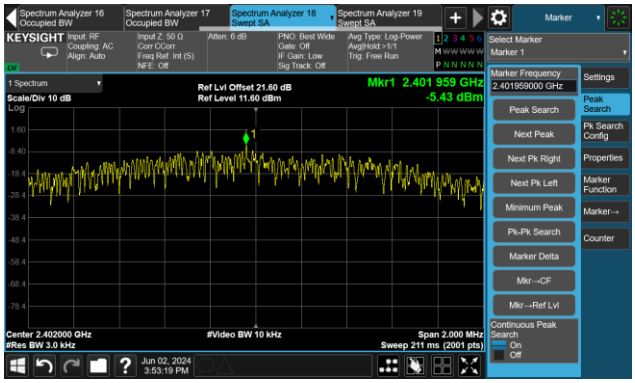
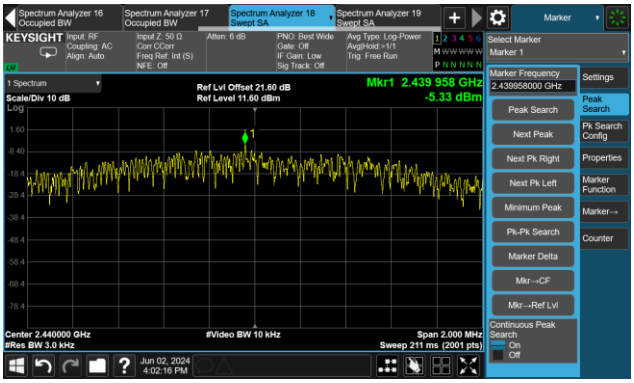
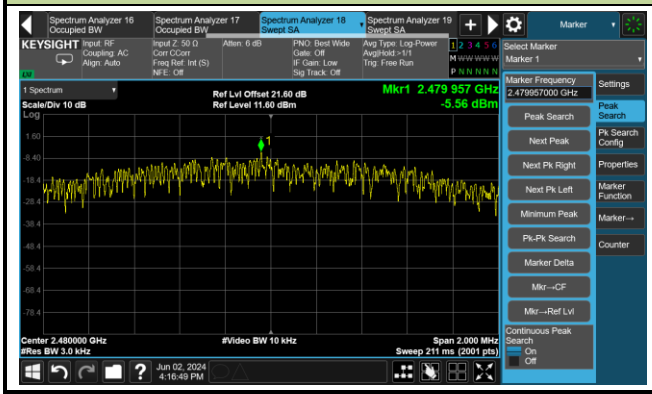
BLE-1Mbps PSD

Channel 00 (2402MHz)

Channel 19 (2440MHz)

Channel 39 (2480MHz)



BLE-2Mbps PSD	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

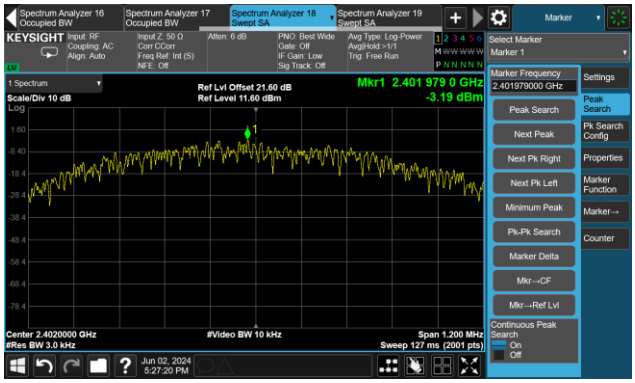
Mode 2

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

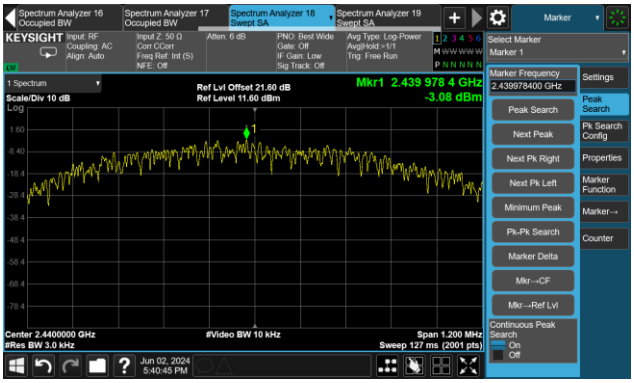
Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-3.19	≤ 8.00	Pass
BLE	1Mbps	19	2440	-3.08	≤ 8.00	Pass
BLE	1Mbps	39	2480	-2.94	≤ 8.00	Pass
BLE	2Mbps	00	2402	-5.05	≤ 8.00	Pass
BLE	2Mbps	19	2440	-5.09	≤ 8.00	Pass
BLE	2Mbps	39	2480	-5.08	≤ 8.00	Pass

BLE-1Mbps PSD

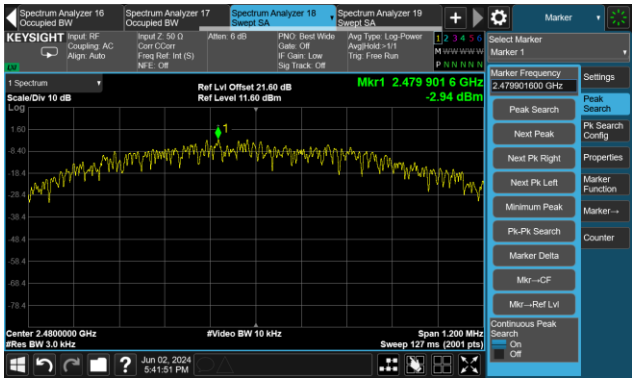
Channel 00 (2402MHz)

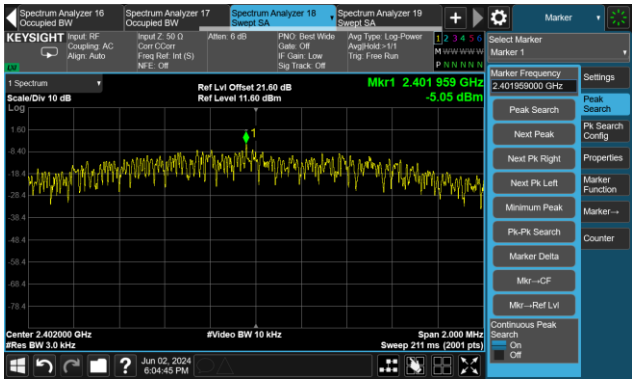
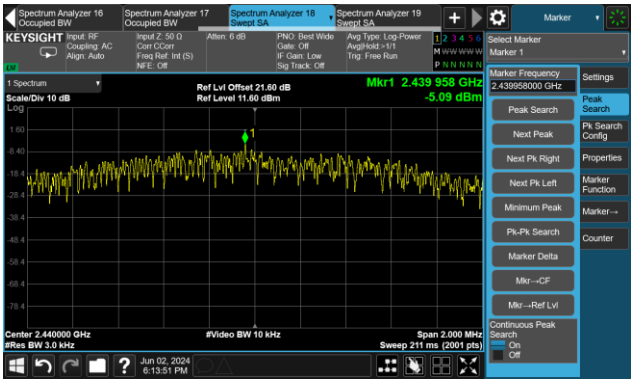
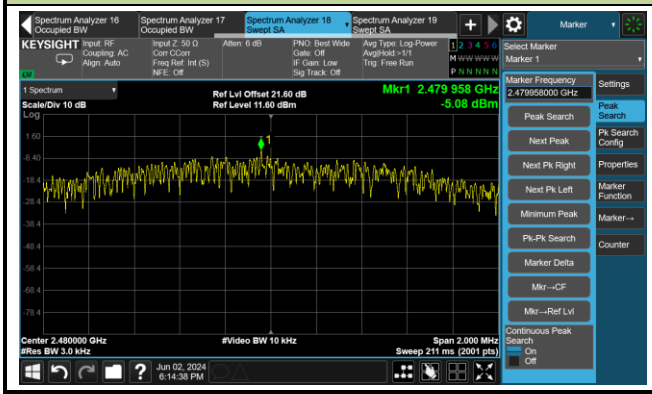


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps PSD	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

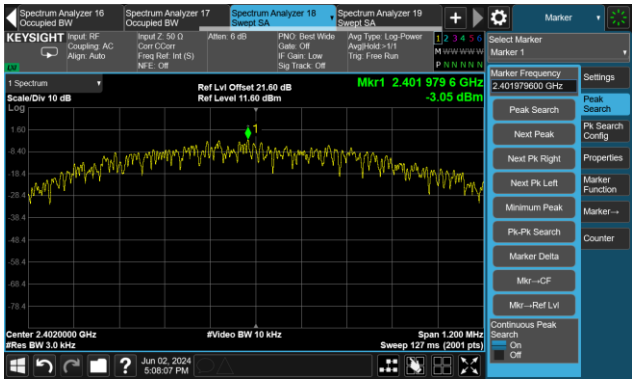
Mode 3

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02		

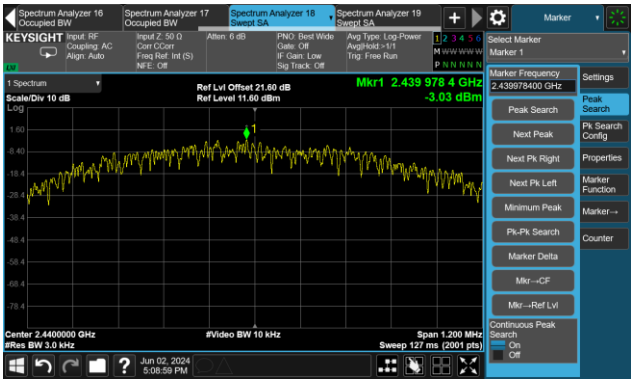
Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-3.05	≤ 8.00	Pass
BLE	1Mbps	19	2440	-3.03	≤ 8.00	Pass
BLE	1Mbps	39	2480	-3.04	≤ 8.00	Pass
BLE	2Mbps	00	2402	-5.08	≤ 8.00	Pass
BLE	2Mbps	19	2440	-5.11	≤ 8.00	Pass
BLE	2Mbps	39	2480	-5.30	≤ 8.00	Pass

BLE-1Mbps PSD

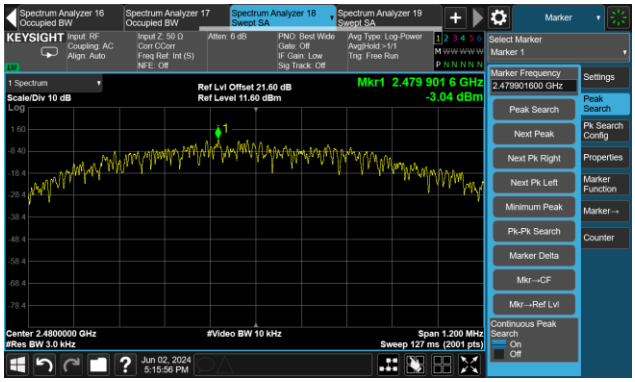
Channel 00 (2402MHz)

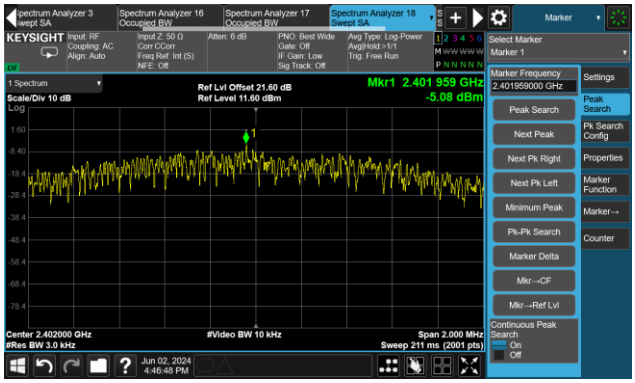
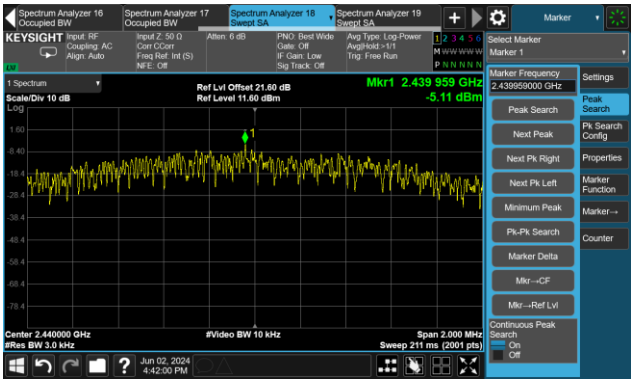
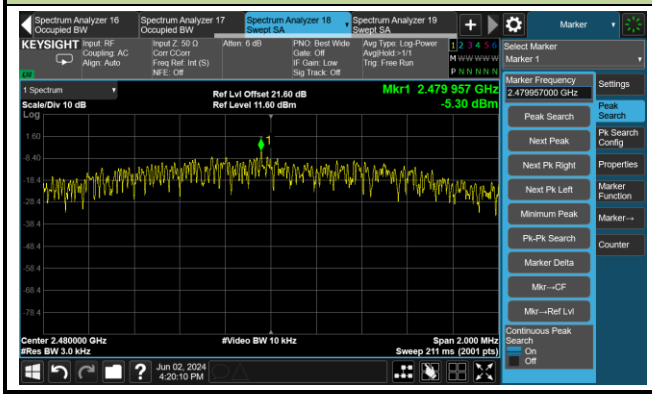


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps PSD	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

Mode 1

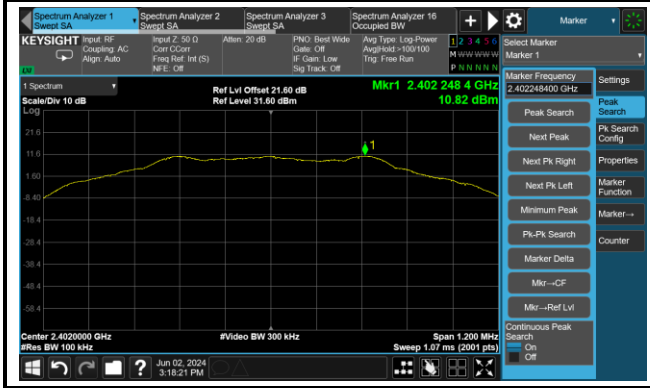
Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02	Filter	1#

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass

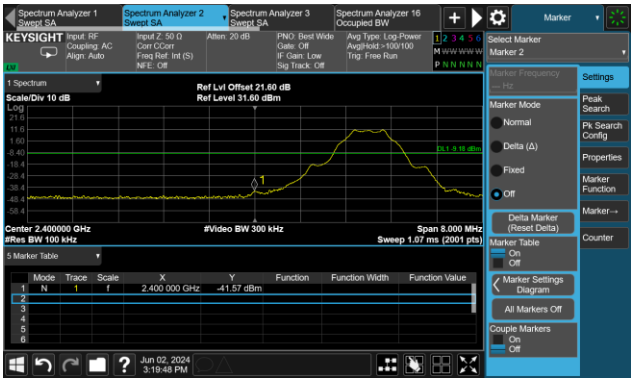
BLE-1Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

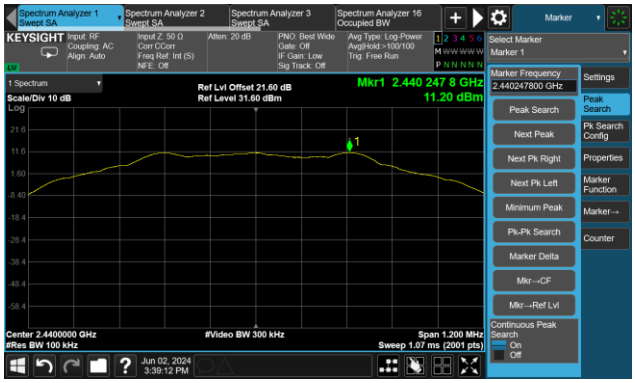
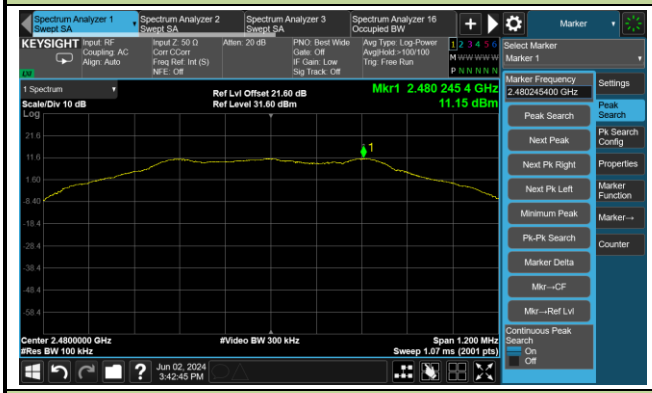
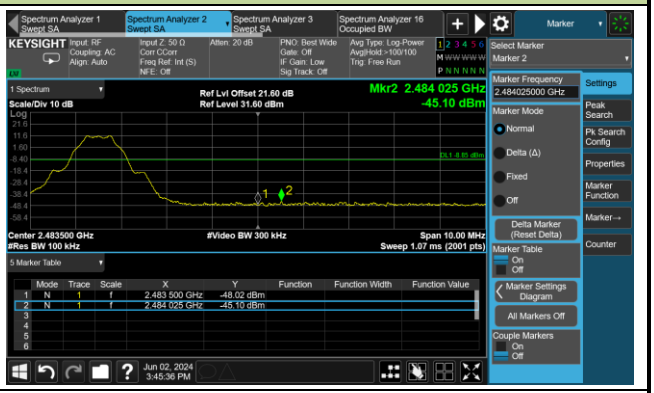
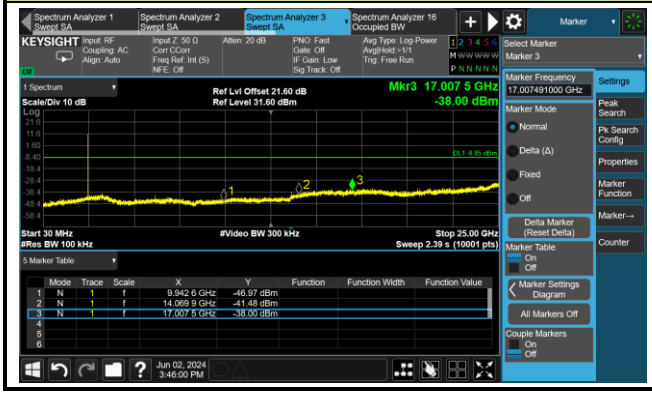
100kHz PSD Reference Level



Low Band Edge



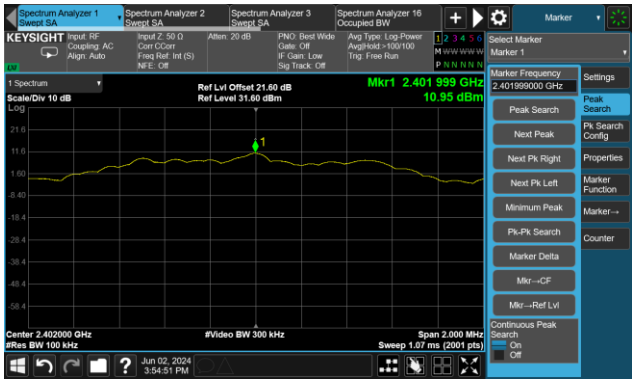
Spurious Emission 30MHz ~ 25GHz

Channel 19 (2440MHz)	
100kHz PSD Reference Level	Spurious Emission 30MHz ~ 25GHz
	
Channel 39 (2480MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

BLE-2Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

100kHz PSD Reference Level

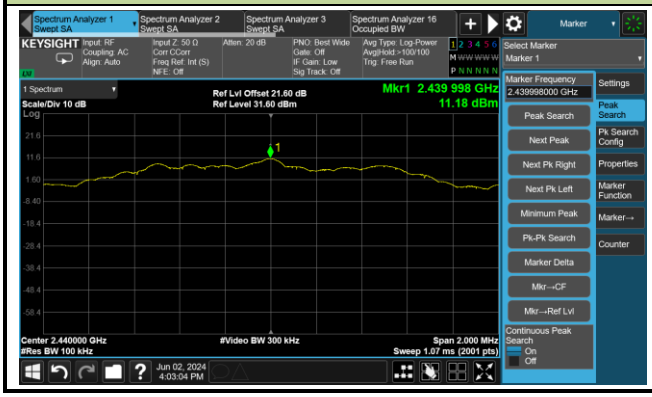


Low Band Edge

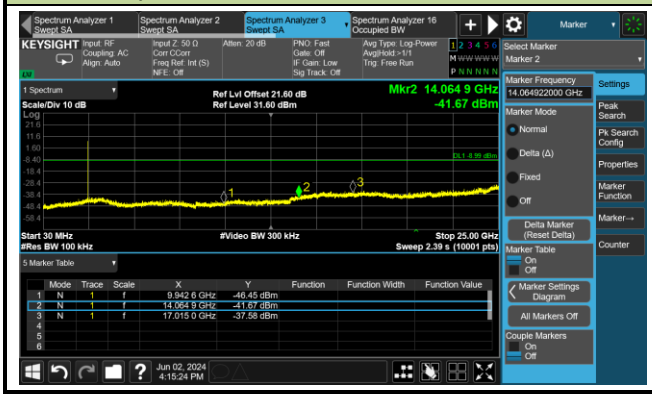
Spurious Emission 30MHz ~ 25GHz

Channel 19 (2440MHz)

100kHz PSD Reference Level



Spurious Emission 30MHz ~ 25GHz

Channel 39 (2480MHz)	
100kHz PSD Reference Level	High Band Edge
Spurious Emission 30MHz ~ 25GHz	
	

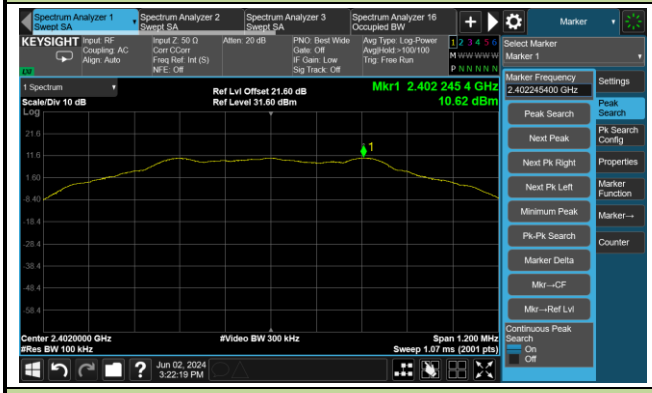
Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-06-02	Filter	2#

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	2	00	2402	20	Pass

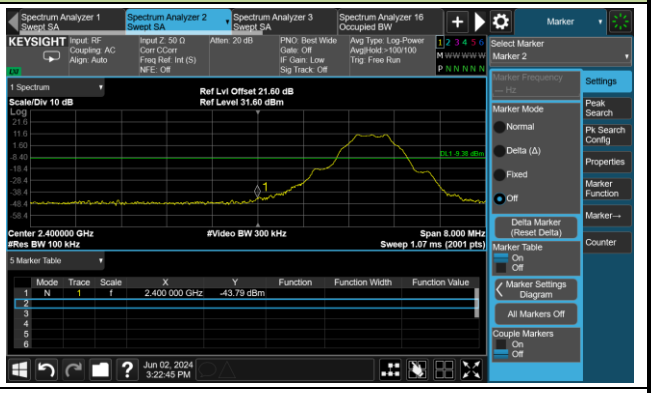
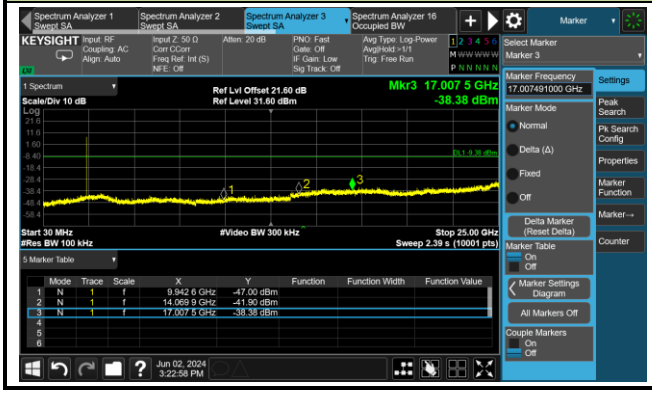
BLE-1Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

100kHz PSD Reference Level



Low Band Edge



Spurious Emission 30MHz ~ 25GHz