

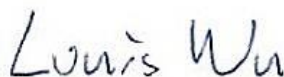


FCC RADIO TEST REPORT

FCC ID : ACJ9TGWL24A
Equipment : Radio Module
Brand Name : Panasonic
Model Name : WL24A
Applicant : Panasonic Corporation of North America
Two Riverfront Plaza, Newark, New Jersey,
07102-5490, USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Oct. 29, 2025 and testing was performed from Nov. 10, 2025 to Dec. 24, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR5O2913-01B	01	Initial issue of report	Jan. 19, 2026
FR5O2913-01B	02	Revise Section 1.1 This report is an updated version, replacing the report issued on Jan. 19, 2026.	Jan. 26, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.247(a)(2)	6dB Bandwidth	Pass	See Note
-	2.1049	99% Occupied Bandwidth	Pass	See Note
3.1	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
-	15.247(e)	Power Spectral Density	Pass	See Note
-	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	See Note
3.2	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	4.15 dB under the limit at 2483.52 MHz
-	15.207	AC Conducted Emission	Pass	See Note
3.3	15.203	Antenna Requirement	Pass	-

Note:

- For host device, Radiated Spurious Emission is verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: Panasonic WL24A)

Conformity Assessment Condition:

- 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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "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: Keven Cheng
Report Producer: Freda Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11ax/be		
Antenna Type Bluetooth: <Aux Ant. (Chain A)>: PIFA Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Aux Ant. (Chain A): 2.24 dBi

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. The product was installed into Portable Computer (Brand Name: Panasonic, Model Name: FZ-56(mk1) during test.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH21-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

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

- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2020

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

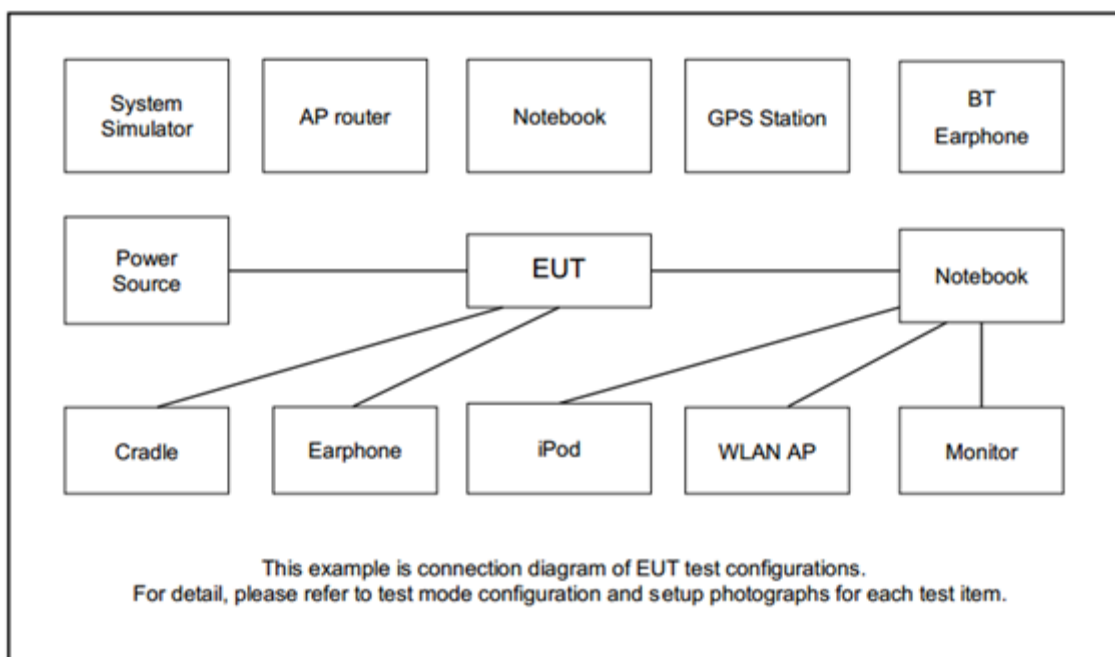
2.2 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
Conducted Test Cases	Bluetooth – LE / GFSK
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
	Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps
Remark: The detailed Radiated test modes are shown in Appendix B.	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Earphone	Apple	A1285	Verification	Shielded, 1.0 m	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “DRTU v09295.23.170.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

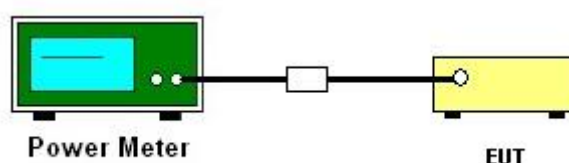
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.2 PKPM1.
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. The RF output of EUT is connected to the power meter by RF cable and attenuator.
4. The path loss is compensated to the results for each measurement.
5. Set the maximum power setting and enable the EUT to transmit continuously.
6. Measure the conducted output power and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.1.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

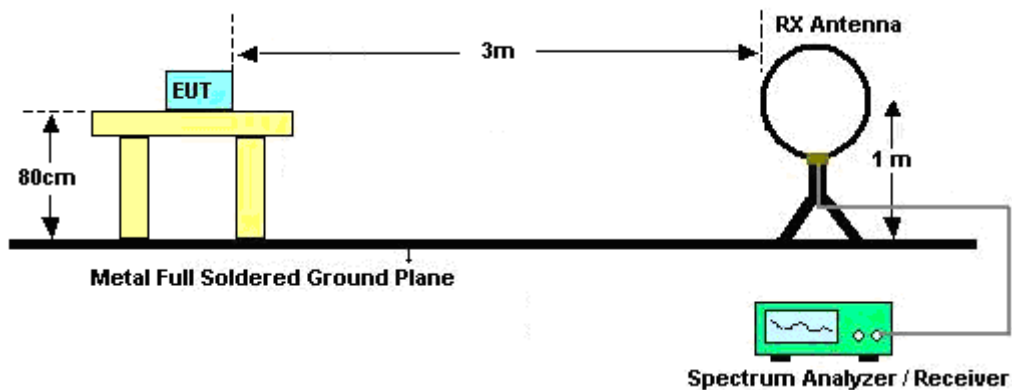


3.2.3 Test Procedures

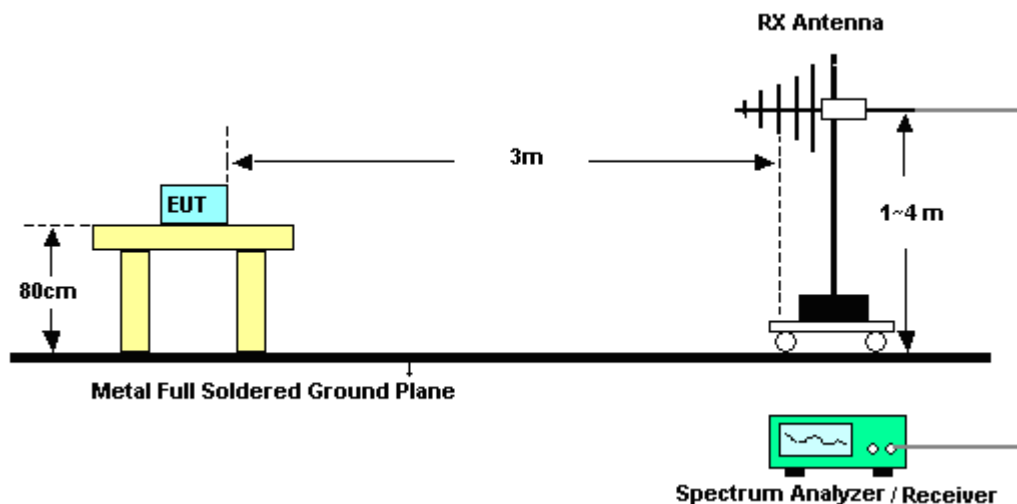
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.2.4 Test Setup

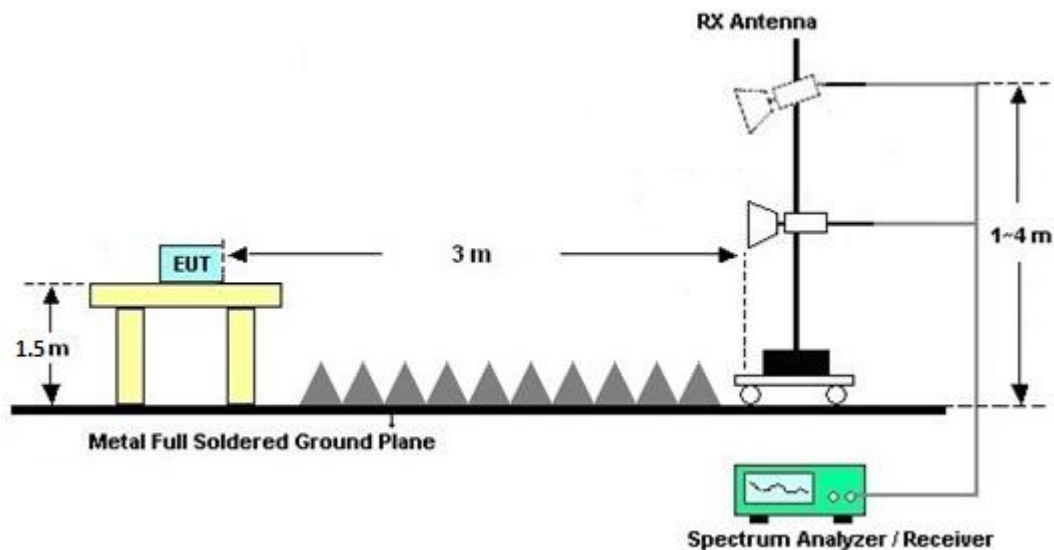
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz

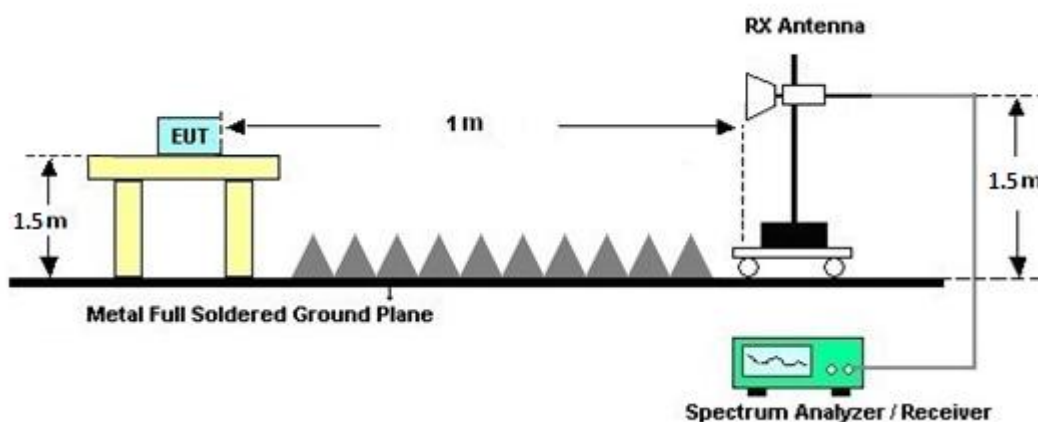


For radiated test from 1GHz to 18GHz





For radiated test above 18GHz



3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix B.



3.3 Antenna Requirements

3.3.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.3.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	101108	9 kHz~30 MHz	Dec. 18, 2024	Nov. 12, 2025~ Dec. 09, 2025	Dec. 17, 2025	Radiation (03CH21-HY)
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Dec. 24, 2025	Mar. 05, 2026	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Dec. 17, 2024	Nov. 12, 2025~ Dec. 09, 2025	Dec. 16, 2025	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Dec. 24, 2025	Nov. 25, 2026	Radiation (03CH21-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 27, 2025	Nov. 12, 2025~ Dec. 24, 2025	Mar. 26, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Nov. 12, 2025~ Dec. 24, 2025	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Nov. 12, 2025~ Dec. 24, 2025	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Nov. 12, 2025~ Dec. 24, 2025	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Nov. 12, 2025~ Dec. 24, 2025	Aug. 25, 2026	Radiation (03CH21-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 08, 2025	Nov. 12, 2025~ Dec. 24, 2025	Sep. 07, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Nov. 12, 2025~ Dec. 24, 2025	Mar. 04, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,803954/2	30MHz~40GHz	Aug. 11, 2025	Nov. 12, 2025~ Dec. 24, 2025	Aug. 10, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Nov. 12, 2025~ Dec. 24, 2025	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 12, 2025~ Dec. 24, 2025	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Nov. 12, 2025~ Dec. 24, 2025	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 12, 2025~ Dec. 24, 2025	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Nov. 12, 2025~ Dec. 24, 2025	N/A	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP224371	N/A	Jun. 16, 2025	Nov. 10, 2025~ Nov. 12, 2025	Jun. 15, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Nov. 10, 2025~ Nov. 12, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 01, 2025	Nov. 10, 2025~ Nov. 12, 2025	Jun. 30, 2026	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 01, 2025	Nov. 10, 2025~ Nov. 12, 2025	Jun. 30, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Nov. 10, 2025~ Nov. 12, 2025	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Nov. 10, 2025~ Nov. 12, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Nov. 10, 2025~ Nov. 12, 2025	N/A	Conducted (TH05-HY)

5 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Benny Ku	Temperature:	21~25	°C
Test Date:	2025/11/10~2025/11/12	Relative Humidity:	51~54	%

TEST RESULTS DATA**Peak Power Table**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)
BLE	1Mbps	1	0	2402	14.22	30.00
BLE	1Mbps	1	19	2440	14.20	30.00
BLE	1Mbps	1	39	2480	14.47	30.00

TEST RESULTS DATA**Average Power Table****(Reporting Only)**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	13.83
BLE	1Mbps	1	19	2440	13.84
BLE	1Mbps	1	39	2480	14.10

TEST RESULTS DATA**Peak Power Table**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)
BLE	2Mbps	1	0	2402	14.20	30.00
BLE	2Mbps	1	19	2440	14.26	30.00
BLE	2Mbps	1	39	2480	14.50	30.00

TEST RESULTS DATA**Average Power Table****(Reporting Only)**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	13.92
BLE	2Mbps	1	19	2440	13.96
BLE	2Mbps	1	39	2480	14.14



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Fred Tseng, Ray Lung and Sky Chang	Temperature :	21.1 ~ 25.7°C
		Relative Humidity :	55.8 ~ 63.2%

Note symbol

-L	Low channel location
-R	High channel location

B1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 4	2400-2483.5	Chain A	Bluetooth-LE_GFSK	39	2480	2Mbps	-	-
Mode 5	2400-2483.5	Chain A	Bluetooth-LE_GFSK	39	2480	2Mbps	-	LF
Mode 6	2400-2483.5	Chain A	Bluetooth-LE_GFSK	39	2480	2Mbps	-	SHF



B2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
4	Bluetooth-LE_GFSK	39	2483.52	49.85	54.00	-4.15	H	Avg.	Pass	-	Band Edge
	Bluetooth-LE_GFSK	39	7440.00	42.00	54.00	-12.00	V	Avg.	Pass	-	Harmonic
5	LF	39	958.29	33.65	46.00	-12.35	H	Peak	Pass	-	LF
6	SHF	39	24602.58	40.62	74.00	-33.38	V	Peak	Pass	-	SHF



4

Mode

Band Edge

2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz

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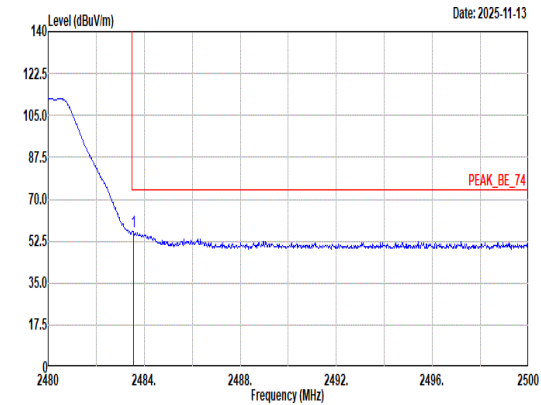
Chain A

Pol.

Horizontal

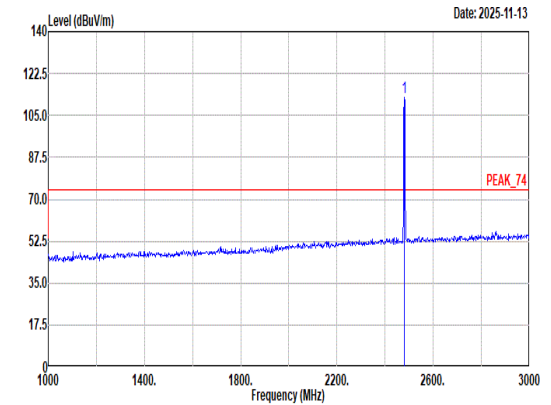
Fundamental

Peak



Site : 03CH21-HY
Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250007 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

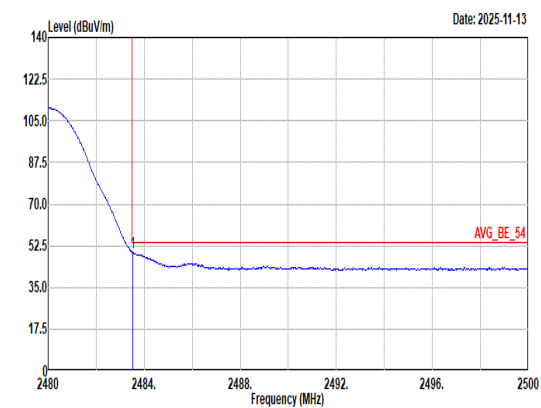
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg
1	2483.54	56.44	74.00	-17.56	42.62	26.67	9.63	32.89	10.41	284	242 Peak



Site : 03CH21-HY
Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250007 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

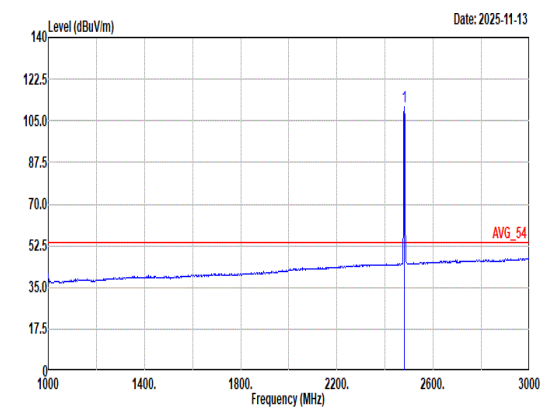
	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos		
	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor		Remark	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg
1	2480.00	112.33	-----	-----	98.58	26.60	9.63	32.89	10.41	284	242 Peak

Avg



Site : 03CH21-HY
Condition: AVG_BE_54 3m DRH18-E_LE2C03A18EN_250007 HORIZONTAL
: RBW:1000.000kHz VBW:5.600kHz SMT:Auto

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos				
Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor		Remark			
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2483.52	49.85	54.00	-4.15	36.03	26.67	9.63	32.89	10.41	284	242	Average



Site : 03CH21-HY
Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250007 HORIZONTAL
: RBW:1000.000kHz VBW:5.600kHz SMT:Auto

Limit				Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2480.00	111.15	-----	-----	97.40	26.60	9.63	32.89	10.41	284	242	Average



Mode	4																																																																																	
	Band Edge																																																																																	
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz																																																																																	
ANT	Chain A																																																																																	
Pol.	Vertical	Fundamental																																																																																
Peak	Level (dBuV/m) Date: 2025-11-13 PEAK_BE_74 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250007 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 2483.54</td><td>55.37</td><td>74.00</td><td>-18.63</td><td>41.55</td><td>26.67</td><td>9.63</td><td>32.89</td><td>10.41</td><td>178 161 Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB	dB	cm deg	1 2483.54	55.37	74.00	-18.63	41.55	26.67	9.63	32.89	10.41	178 161 Peak	Level (dBuV/m) Date: 2025-11-13 PEAK_74 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250007 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 2480.00</td><td>109.33</td><td>-----</td><td>-----</td><td>95.58</td><td>26.60</td><td>9.63</td><td>32.89</td><td>10.41</td><td>178 161 Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB	dB	cm deg	1 2480.00	109.33	-----	-----	95.58	26.60	9.63	32.89	10.41	178 161 Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																								
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1 2480.00	109.33	-----	-----	95.58	26.60	9.63	32.89	10.41	178 161 Peak																																																																									
Avg	Level (dBuV/m) Date: 2025-11-13 AVG_BE_54 Site : 03CH21-HY Condition: AVG_BE_54 3m DRH18-E_LE2C03A18EN_250007 VERTICAL : RBW:1000.000kHz VBW:5.600kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 2483.52</td><td>47.58</td><td>54.00</td><td>-6.42</td><td>33.76</td><td>26.67</td><td>9.63</td><td>32.89</td><td>10.41</td><td>178 161 Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB	dB	cm deg	1 2483.52	47.58	54.00	-6.42	33.76	26.67	9.63	32.89	10.41	178 161 Average	Level (dBuV/m) Date: 2025-11-13 AVG_54 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250007 VERTICAL : RBW:1000.000kHz VBW:5.600kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 2480.00</td><td>108.11</td><td>-----</td><td>-----</td><td>94.36</td><td>26.60</td><td>9.63</td><td>32.89</td><td>10.41</td><td>178 161 Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dB	dB/m	dB	dB	dB	cm deg	1 2480.00	108.11	-----	-----	94.36	26.60	9.63	32.89	10.41	178 161 Average
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																									
Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor																																																																										
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1 2480.00	108.11	-----	-----	94.36	26.60	9.63	32.89	10.41	178 161 Average																																																																									

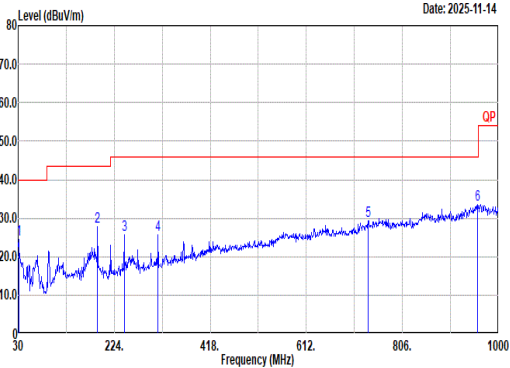
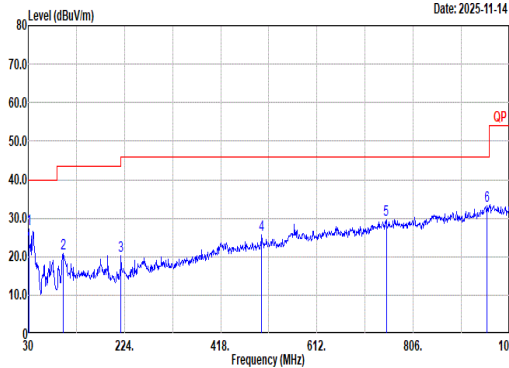


Mode	4																																																																																																																									
	Harmonic																																																																																																																									
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz																																																																																																																									
ANT	Chain A																																																																																																																									
Pol.	Horizontal	Vertical																																																																																																																								
Peak Avg	Level (dBuV/m) Date: 2025-11-13 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>4960.00</td><td>47.55</td><td>74.00</td><td>-26.45</td><td>33.09</td><td>32.64</td><td>13.59</td><td>34.07</td><td>2.30 -- -- Peak</td></tr><tr><td>2</td><td>7440.00</td><td>50.79</td><td>74.00</td><td>-23.21</td><td>32.03</td><td>36.82</td><td>16.88</td><td>36.42</td><td>1.48 -- -- Peak</td></tr><tr><td>3</td><td>7440.00</td><td>41.90</td><td>54.00</td><td>-12.10</td><td>23.14</td><td>36.82</td><td>16.88</td><td>36.42</td><td>1.48 -- -- Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	4960.00	47.55	74.00	-26.45	33.09	32.64	13.59	34.07	2.30 -- -- Peak	2	7440.00	50.79	74.00	-23.21	32.03	36.82	16.88	36.42	1.48 -- -- Peak	3	7440.00	41.90	54.00	-12.10	23.14	36.82	16.88	36.42	1.48 -- -- Average	Level (dBuV/m) Date: 2025-11-13 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>4960.00</td><td>47.38</td><td>74.00</td><td>-26.62</td><td>32.92</td><td>32.64</td><td>13.59</td><td>34.07</td><td>2.30 -- -- Peak</td></tr><tr><td>2</td><td>7440.00</td><td>49.88</td><td>74.00</td><td>-24.12</td><td>31.12</td><td>36.82</td><td>16.88</td><td>36.42</td><td>1.48 -- -- Peak</td></tr><tr><td>3</td><td>7440.00</td><td>42.00</td><td>54.00</td><td>-12.00</td><td>23.24</td><td>36.82</td><td>16.88</td><td>36.42</td><td>1.48 -- -- Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	4960.00	47.38	74.00	-26.62	32.92	32.64	13.59	34.07	2.30 -- -- Peak	2	7440.00	49.88	74.00	-24.12	31.12	36.82	16.88	36.42	1.48 -- -- Peak	3	7440.00	42.00	54.00	-12.00	23.24	36.82	16.88	36.42	1.48 -- -- Average
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg																																																																																																																	
1	4960.00	47.55	74.00	-26.45	33.09	32.64	13.59	34.07	2.30 -- -- Peak																																																																																																																	
2	7440.00	50.79	74.00	-23.21	32.03	36.82	16.88	36.42	1.48 -- -- Peak																																																																																																																	
3	7440.00	41.90	54.00	-12.10	23.14	36.82	16.88	36.42	1.48 -- -- Average																																																																																																																	
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Mode	4	
	Harmonic	
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz	
ANT	Chain A	
Pol.	Horizontal	Vertical
10.8G ~18G Avg	Level (dBuV/m) Date: 2025-11-13 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL	Level (dBuV/m) Date: 2025-11-13 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL



Mode	5																																																																																																																																																																																																																																												
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ANT	Chain A																																																																																																																																																																																																																																												
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Peak	Date: 2025-12-24 Site : 03CH21-HY Condition: PEAK_74 1m BBHA9170_1223_250702 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>23955.51</td><td>40.13</td><td>74.00</td><td>-33.87</td><td>42.26</td><td>38.93</td><td>28.58</td><td>60.10</td><td>-9.54</td><td>--</td><td>PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB		1	23955.51	40.13	74.00	-33.87	42.26	38.93	28.58	60.10	-9.54	--	PEAK	Date: 2025-12-24 Site : 03CH21-HY Condition: PEAK_74 1m BBHA9170_1223_250702 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>24602.58</td><td>40.62</td><td>74.00</td><td>-33.38</td><td>41.84</td><td>39.41</td><td>28.97</td><td>60.06</td><td>-9.54</td><td>--</td><td>PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB		1	24602.58	40.62	74.00	-33.38	41.84	39.41	28.97	60.06	-9.54	--	PEAK
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Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
Chain B	Bluetooth - LE for 2Mbps	30.99	194	5.15	5.6kHz

