



FCC RADIO TEST REPORT

FCC ID : ZAT-2340R5MODA
Equipment : CC2340R5MODAN0MHAR
Brand Name : Texas Instruments
Model Name : CC2340R5MODAN0MHAR
Marketing Name : CC2340R5MODA SimpleLink™
2.4GHz Wireless MCU Module with
Integrated Antenna
Applicant : Texas Instruments Incorporated
12500 TI BLVD., Dallas, Texas, 75243
Manufacturer : Texas Instruments Incorporated
12500 TI BLVD., Dallas, Texas, 75243
Standard : FCC Part 15 Subpart C §15.247

The product was received on Feb. 11, 2026 and testing was performed from Mar. 16, 2026 to Mar. 19, 2026. 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 variant 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.

Louis Wu

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
FR5O0203-01	01	Initial issue of report	Apr. 10, 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	-
-	15.207	AC Conducted Emission	Pass	See Note
3.3	15.203	Antenna Requirement	Pass	-

Note: This is a variant report for the Rev B module based on the Rev A module. All the test cases were performed in the original report which can be referred to Sporton Report Number FR5O0203. Based on the original report, the test cases were verified.

Difference description between Rev A module and Rev B module:

The GNDing of the RF chip has been improved on the Rev B module compared to Rev A. Initially, Rev A had a partial GND concept on layer 2 of the module's 4-layer PCB and Rev B has a dedicated GND layer on layer 2. i.e. improved GND concept with Rev B. This is the largest difference between Rev A and Rev B design. A 4.3 pF capacitor was also added to a general purpose input/output pin (DIO6) on the Rev B design. The RF passive filtering is the same for both Rev A and Rev B and identical filter components are used on both designs. The RF chip is also identical between Rev A module and Rev B module.

Conformity Assessment Condition:

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

Report Producer: Lili Lu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth - LE (125 kbps, 500 kbps, 1Mbps, 2Mbps)		
Antenna Type Bluetooth-LE: Chip Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	2

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

The test location is accredited based on TAF code 3786 designated by NCC (National Communication Commission).

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.)

FCC designation No.: TW3786

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

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 + Cor.1-2023

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	-	-

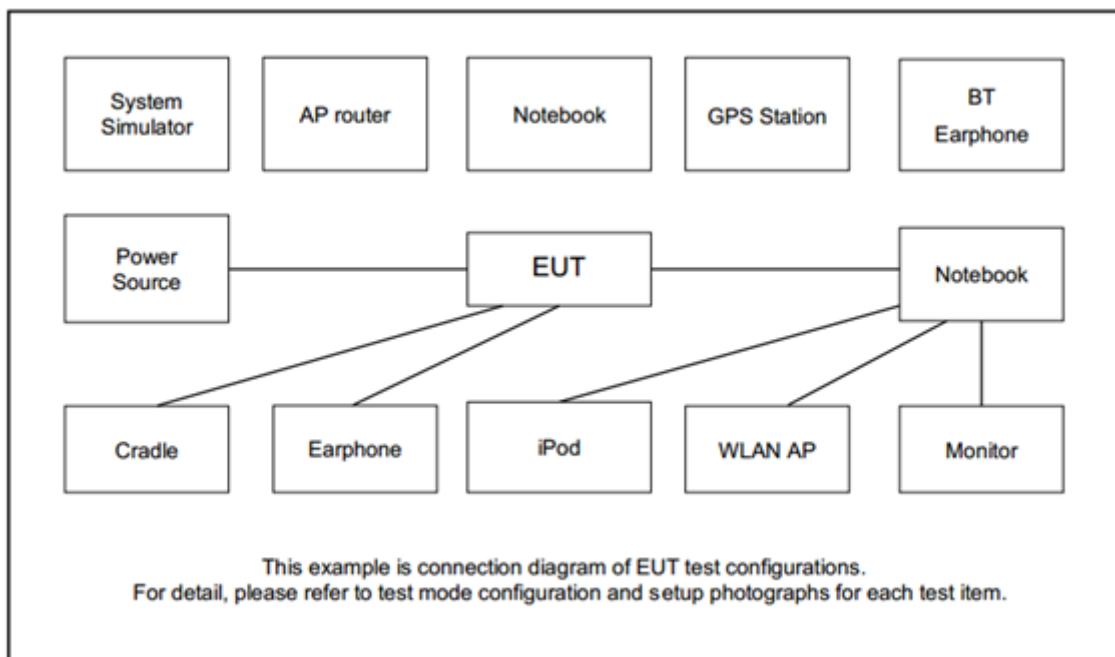
2.2 Test Mode

- 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). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

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 CH01_2404 MHz_2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 6: Bluetooth Tx CH38_2478 MHz_2Mbps
	Mode 7: Bluetooth Tx CH00_2402 MHz_125kbps
	Mode 8: Bluetooth Tx CH19_2440 MHz_125kbps
	Mode 9: Bluetooth Tx CH39_2480 MHz_125kbps
	Mode 10: Bluetooth Tx CH00_2402 MHz_500kbps
	Mode 11: Bluetooth Tx CH19_2440 MHz_500kbps
	Mode 12: Bluetooth Tx CH39_2480 MHz_500kbps
Remark:	
1. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.	
2. Bluetooth-LE 2Mbps does not support primary advertising channels; it does not support channel 00 and channel 39.	
3. 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.	Notebook	Lenovo	IdeaPad Gaming	PD9AX201NG	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “SmartRF Studio 8 Version 1.3.2” 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.

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.

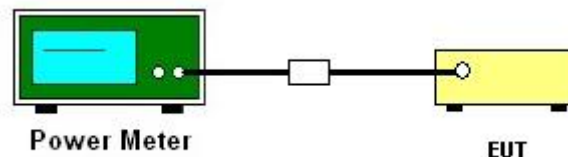
3.1.2 Measuring Instruments

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.

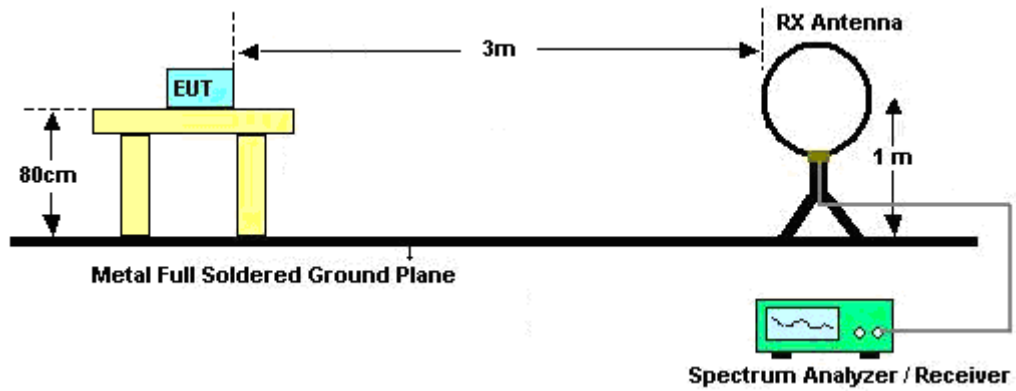


3.2.3 Test Procedures

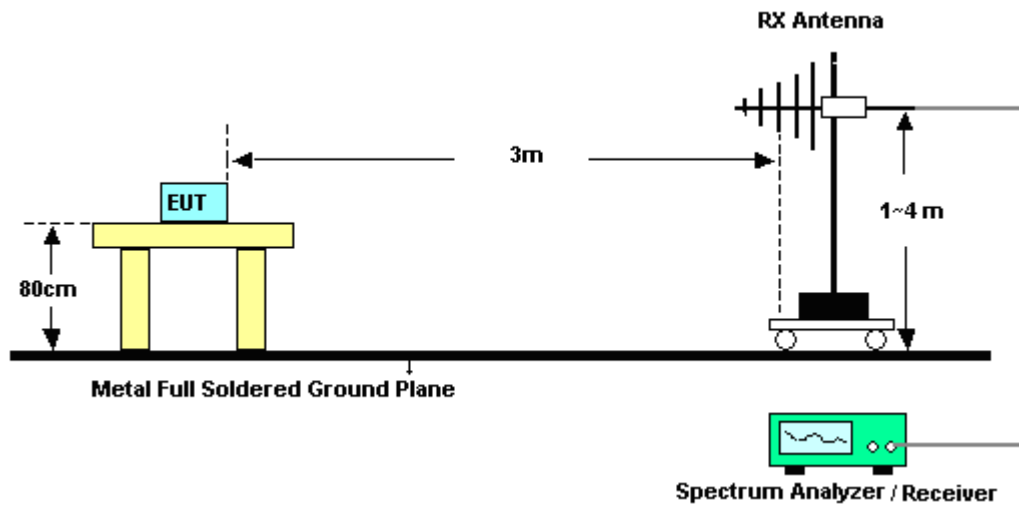
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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

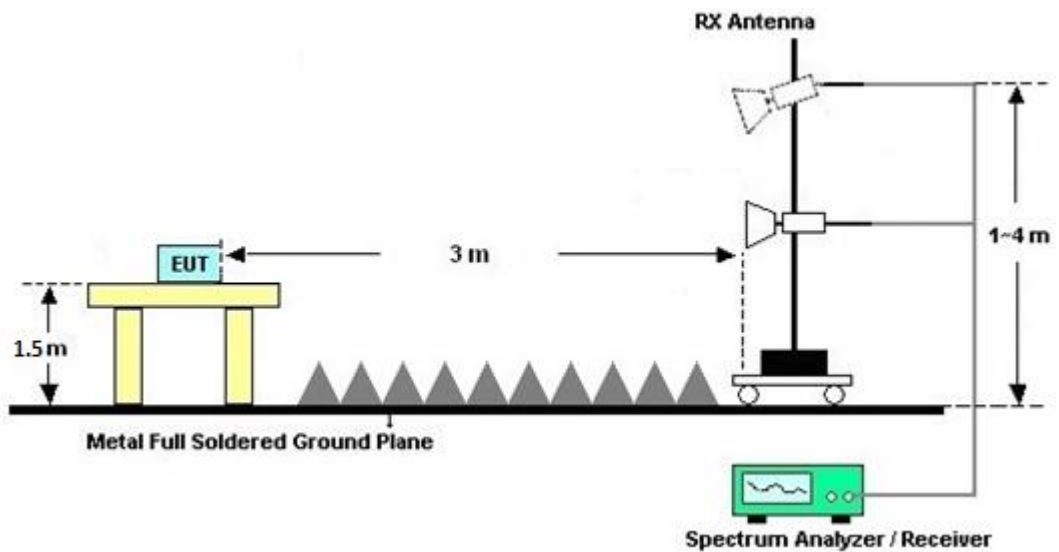
For radiated test below 30MHz



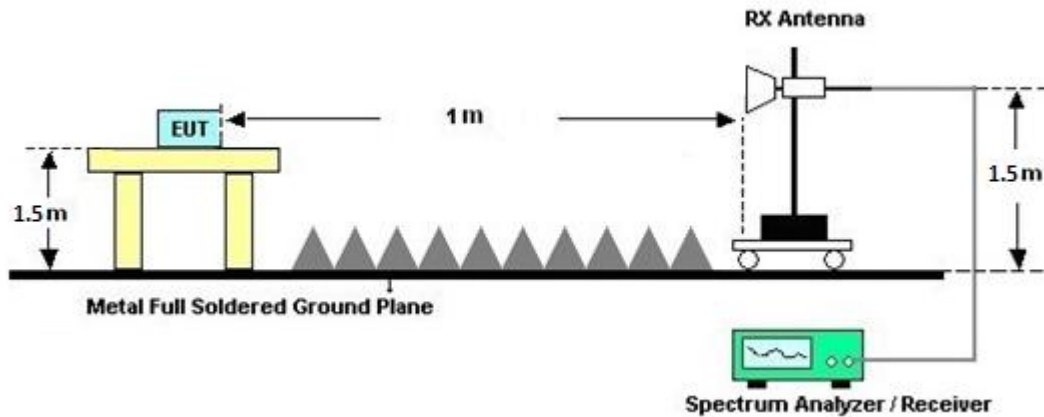
For radiated test from 30MHz to 1GHz



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
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Mar. 18, 2026~ Mar. 19, 2026	Nov. 25, 2026	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Mar. 18, 2026~ Mar. 19, 2026	Dec. 10, 2026	Radiation (03CH11-HY)
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Sep. 15, 2025	Mar. 18, 2026~ Mar. 19, 2026	Sep. 14, 2026	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jul. 02, 2025	Mar. 18, 2026~ Mar. 19, 2026	Jul. 01, 2026	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 06, 2025	Mar. 18, 2026~ Mar. 19, 2026	Dec. 05, 2026	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 24, 2025	Mar. 18, 2026~ Mar. 19, 2026	Mar. 23, 2026	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	Mar. 18, 2026~ Mar. 19, 2026	Jan. 20, 2026	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Mar. 18, 2026~ Mar. 19, 2026	May 25, 2026	Radiation (03CH11-HY)
Signal Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2025	Mar. 18, 2026~ Mar. 19, 2026	Oct. 22, 2026	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 22, 2025	Mar. 18, 2026~ Mar. 19, 2026	Jul. 21, 2026	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 18, 2026~ Mar. 19, 2026	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 18, 2026~ Mar. 19, 2026	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 18, 2026~ Mar. 19, 2026	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-002391	N/A	N/A	Mar. 18, 2026~ Mar. 19, 2026	N/A	Radiation (03CH11-HY)
Software	Audix	E3	RK-002391	N/A	N/A	Mar. 18, 2026~ Mar. 19, 2026	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 04, 2026	Mar. 18, 2026~ Mar. 19, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 04, 2026	Mar. 18, 2026~ Mar. 19, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 04, 2026	Mar. 18, 2026~ Mar. 19, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	Mar. 04, 2026	Mar. 18, 2026~ Mar. 19, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 09, 2025	Mar. 18, 2026~ Mar. 19, 2026	Sep. 08, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 09, 2025	Mar. 18, 2026~ Mar. 19, 2026	Sep. 08, 2026	Radiation (03CH11-HY)
Hygrometer	TECEPIL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Mar. 16, 2026~ Mar. 17, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 01, 2025	Mar. 16, 2026~ Mar. 17, 2026	Jun. 30, 2026	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 01, 2025	Mar. 16, 2026~ Mar. 17, 2026	Jun. 30, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Mar. 16, 2026~ Mar. 17, 2026	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Mar. 16, 2026~ Mar. 17, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Mar. 16, 2026~ Mar. 17, 2026	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% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	21~25	°C
Test Date:	2026/3/16~2026/3/17	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)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	8.50	30.00	2.00	10.50	36.00	Pass
BLE	1Mbps	1	19	2440	8.56	30.00	2.00	10.56	36.00	Pass
BLE	1Mbps	1	39	2480	8.50	30.00	2.00	10.50	36.00	Pass

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

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	6.90	30.00	2.00	8.90	36.00	Pass
BLE	1Mbps	1	19	2440	6.92	30.00	2.00	8.92	36.00	Pass
BLE	1Mbps	1	39	2480	6.73	30.00	2.00	8.73	36.00	Pass

TEST RESULTS DATA**Peak Power Table**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	1	2404	8.66	30.00	2.00	10.66	36.00	Pass
BLE	2Mbps	1	19	2440	8.50	30.00	2.00	10.50	36.00	Pass
BLE	2Mbps	1	38	2478	8.50	30.00	2.00	10.50	36.00	Pass

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

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	1	2404	7.00	30.00	2.00	9.00	36.00	Pass
BLE	2Mbps	1	19	2440	6.92	30.00	2.00	8.92	36.00	Pass
BLE	2Mbps	1	38	2478	6.72	30.00	2.00	8.72	36.00	Pass

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	21~25	°C
Test Date:	2026/3/16	Relative Humidity:	51~54	%

TEST RESULTS DATA**Peak Power Table**

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	125k	1	0	2402	8.66	30.00	2.00	10.66	36.00	Pass
BLE	125k	1	19	2440	8.60	30.00	2.00	10.60	36.00	Pass
BLE	125k	1	39	2480	8.61	30.00	2.00	10.61	36.00	Pass

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

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	125k	1	0	2402	7.08	30.00	2.00	9.08	36.00	Pass
BLE	125k	1	19	2440	7.11	30.00	2.00	9.11	36.00	Pass
BLE	125k	1	39	2480	6.85	30.00	2.00	8.85	36.00	Pass

TEST RESULTS DATA**Peak Power Table**

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	500k	1	0	2402	8.56	30.00	2.00	10.56	36.00	Pass
BLE	500k	1	19	2440	8.60	30.00	2.00	10.60	36.00	Pass
BLE	500k	1	39	2480	8.63	30.00	2.00	10.63	36.00	Pass

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

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	500k	1	0	2402	7.00	30.00	2.00	9.00	36.00	Pass
BLE	500k	1	19	2440	7.14	30.00	2.00	9.14	36.00	Pass
BLE	500k	1	39	2480	6.90	30.00	2.00	8.90	36.00	Pass



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Fu Chen and Troye Hsieh	Temperature :	19.6~20.7°C
		Relative Humidity :	51.4~63.2%

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 1	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	-
Mode 2	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	SHF
Mode 3	2400-2483.5	1	Bluetooth-LE GFSK	39	2480	500kbps	-	LF



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
1	Bluetooth-LE GFSK	39	2483.52	46.34	54.00	-7.66	V	Avg.	Pass	-	Band Edge
	Bluetooth-LE GFSK	39	7440.00	51.95	54.00	-2.05	H	Avg.	Pass	-	Harmonic
2	Bluetooth-LE GFSK	39	24769.35	40.64	74.00	-33.36	H	Peak	Pass	-	SHF
3	Bluetooth-LE GFSK	39	30.97	33.62	40.00	-6.38	V	Peak	Pass	-	LF



Mode	1																																																																									
	Band Edge																																																																									
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz																																																																									
ANT	1																																																																									
Pol.	Horizontal	Fundamental																																																																								
Peak	Level (dBuV/m) Date: 2026-03-19 Site : 03CH11-HY Condition: PEAK_BE_74 3m 91200_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</th><th>APos</th><th>TPos</th><th>Remark</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</th><th>deg</th><th></th></tr><tr><td>1 2484.02</td><td>54.83</td><td>74.00</td><td>-19.17</td><td>43.36</td><td>27.68</td><td>6.78</td><td>33.11</td><td>10.12</td><td>376</td><td>360</td><td>Peak</td></tr></table>	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1 2484.02	54.83	74.00	-19.17	43.36	27.68	6.78	33.11	10.12	376	360	Peak	Level (dBuV/m) Date: 2026-03-19 Site : 03CH11-HY Condition: PEAK_74 3m 91200_01620_250915 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</th><th>APos</th><th>TPos</th><th>Remark</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</th><th>deg</th><th></th></tr><tr><td>1 2480.00</td><td>98.15</td><td>-----</td><td>-----</td><td>86.77</td><td>27.60</td><td>6.78</td><td>33.12</td><td>10.12</td><td>376</td><td>360</td><td>Peak</td></tr></table>	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1 2480.00	98.15	-----	-----	86.77	27.60	6.78	33.12	10.12	376	360	Peak
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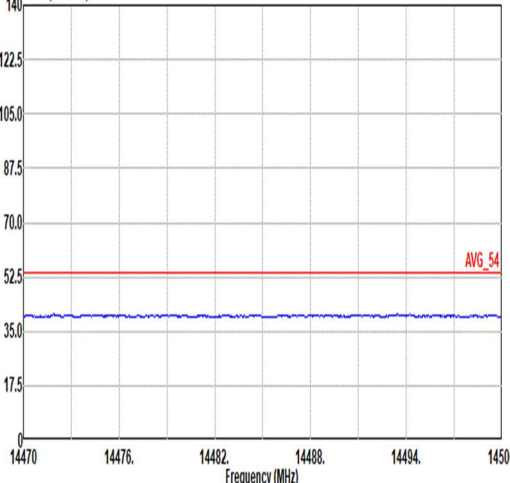
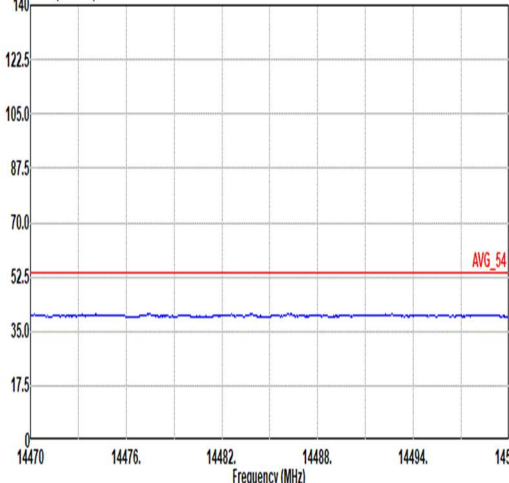
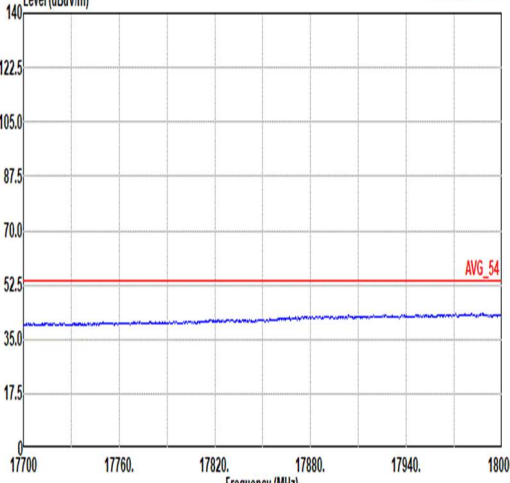
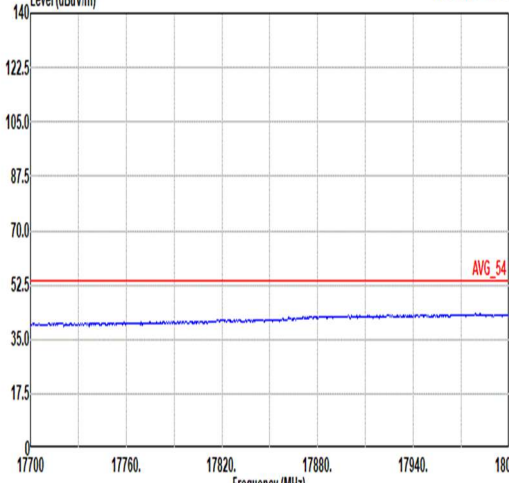


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2	4960.00	51.67	54.00	-2.33	73.76	32.94	11.06	67.05	0.96 250 112 Average																																																																																																																																					
3	7440.00	54.20	74.00	-19.80	70.04	36.30	13.87	66.19	0.18 100 159 Peak																																																																																																																																					
4	7440.00	51.95	54.00	-2.05	67.79	36.30	13.87	66.19	0.18 100 159 Average																																																																																																																																					
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																					
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																						
	MHz	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg																																																																																																																																					
1	4960.00	52.30	74.00	-21.70	74.39	32.94	11.06	67.05	0.96 300 178 Peak																																																																																																																																					
2	4960.00	48.88	54.00	-5.12	70.97	32.94	11.06	67.05	0.96 300 178 Average																																																																																																																																					
3	7440.00	52.59	74.00	-21.41	68.43	36.30	13.87	66.19	0.18 100 17 Peak																																																																																																																																					
4	7440.00	50.92	54.00	-3.08	66.76	36.30	13.87	66.19	0.18 100 17 Average																																																																																																																																					



Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	Level (dBuV/m) Date: 2026-03-19  Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2026-03-19  Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 VERTICAL
	Level (dBuV/m) Date: 2026-03-19  Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 HORIZONTAL	Level (dBuV/m) Date: 2026-03-19  Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_250915 VERTICAL



Mode	2																																																																																									
	SHF																																																																																									
	2400-2483.5_Bluetooth-LE GFSK _CH39_2480MHz																																																																																									
ANT	1																																																																																									
Pol.	Horizontal	Vertical																																																																																								
Peak	Level (dBuV/m) Date: 2026-03-19 Site : 03CH11-HY Condition: PEAK_74 1m SHF_1224_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>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></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>cm</th><th>deg</th></tr><tr><td>1</td><td>24769.35</td><td>40.64</td><td>74.00</td><td>-33.36</td><td>37.98</td><td>39.60</td><td>25.90</td><td>53.30</td><td>-9.54</td><td>--</td><td>--</td><td>PEAK</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	cm	deg	1	24769.35	40.64	74.00	-33.36	37.98	39.60	25.90	53.30	-9.54	--	--	PEAK	Level (dBuV/m) Date: 2026-03-19 Site : 03CH11-HY Condition: PEAK_74 1m SHF_1224_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>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></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>cm</th><th>deg</th></tr><tr><td>1</td><td>24849.22</td><td>40.23</td><td>74.00</td><td>-33.77</td><td>37.42</td><td>39.70</td><td>25.95</td><td>53.30</td><td>-9.54</td><td>--</td><td>--</td><td>PEAK</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	cm	deg	1	24849.22	40.23	74.00	-33.77	37.42	39.70	25.95	53.30	-9.54	--	--	PEAK
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																		
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Mode	3																																																																																																																																																																																					
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Pol.	Horizontal	Vertical																																																																																																																																																																																				
QP/ Peak	Level (dBuV/m) Date: 2026-03-19 Site : 03CH11-HY Condition: QP 3m Bilog_37059 & 01_251126 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>30.00</td><td>32.53</td><td>40.00</td><td>-7.47</td><td>39.54</td><td>24.04</td><td>0.72</td><td>31.06</td><td>0.09 -- -- Peak</td></tr><tr><td>2</td><td>175.50</td><td>34.95</td><td>43.50</td><td>-8.55</td><td>49.73</td><td>15.36</td><td>1.00</td><td>32.00</td><td>0.06 -- -- Peak</td></tr><tr><td>3</td><td>240.49</td><td>32.81</td><td>46.00</td><td>-13.19</td><td>45.20</td><td>17.44</td><td>2.07</td><td>31.95</td><td>0.05 -- -- Peak</td></tr><tr><td>4</td><td>420.91</td><td>32.35</td><td>46.00</td><td>-13.65</td><td>38.76</td><td>22.65</td><td>2.78</td><td>31.92</td><td>0.08 -- -- Peak</td></tr><tr><td>5</td><td>660.50</td><td>34.53</td><td>46.00</td><td>-11.47</td><td>36.06</td><td>26.48</td><td>3.49</td><td>32.06</td><td>0.56 -- -- Peak</td></tr><tr><td>6</td><td>904.94</td><td>35.76</td><td>46.00</td><td>-10.24</td><td>33.19</td><td>29.15</td><td>4.09</td><td>31.14</td><td>0.47 -- -- Peak</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	30.00	32.53	40.00	-7.47	39.54	24.04	0.72	31.06	0.09 -- -- Peak	2	175.50	34.95	43.50	-8.55	49.73	15.36	1.00	32.00	0.06 -- -- Peak	3	240.49	32.81	46.00	-13.19	45.20	17.44	2.07	31.95	0.05 -- -- Peak	4	420.91	32.35	46.00	-13.65	38.76	22.65	2.78	31.92	0.08 -- -- Peak	5	660.50	34.53	46.00	-11.47	36.06	26.48	3.49	32.06	0.56 -- -- Peak	6	904.94	35.76	46.00	-10.24	33.19	29.15	4.09	31.14	0.47 -- -- Peak	Level (dBuV/m) Date: 2026-03-19 Site : 03CH11-HY Condition: QP 3m Bilog_37059 & 01_251126 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>30.97</td><td>33.62</td><td>40.00</td><td>-6.38</td><td>41.11</td><td>23.58</td><td>0.73</td><td>31.88</td><td>0.08 -- -- Peak</td></tr><tr><td>2</td><td>166.77</td><td>32.00</td><td>43.50</td><td>-11.50</td><td>46.23</td><td>16.04</td><td>1.73</td><td>32.05</td><td>0.05 -- -- Peak</td></tr><tr><td>3</td><td>263.77</td><td>26.87</td><td>46.00</td><td>-19.13</td><td>36.28</td><td>20.28</td><td>2.17</td><td>31.93</td><td>0.07 -- -- Peak</td></tr><tr><td>4</td><td>420.91</td><td>31.74</td><td>46.00</td><td>-14.26</td><td>38.15</td><td>22.65</td><td>2.78</td><td>31.92</td><td>0.08 -- -- Peak</td></tr><tr><td>5</td><td>731.31</td><td>34.52</td><td>46.00</td><td>-11.48</td><td>34.27</td><td>27.88</td><td>3.68</td><td>31.91</td><td>0.60 -- -- Peak</td></tr><tr><td>6</td><td>904.94</td><td>34.44</td><td>46.00</td><td>-11.56</td><td>31.87</td><td>29.15</td><td>4.09</td><td>31.14</td><td>0.47 -- -- Peak</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	30.97	33.62	40.00	-6.38	41.11	23.58	0.73	31.88	0.08 -- -- Peak	2	166.77	32.00	43.50	-11.50	46.23	16.04	1.73	32.05	0.05 -- -- Peak	3	263.77	26.87	46.00	-19.13	36.28	20.28	2.17	31.93	0.07 -- -- Peak	4	420.91	31.74	46.00	-14.26	38.15	22.65	2.78	31.92	0.08 -- -- Peak	5	731.31	34.52	46.00	-11.48	34.27	27.88	3.68	31.91	0.60 -- -- Peak	6	904.94	34.44	46.00	-11.56	31.87	29.15	4.09	31.14	0.47 -- -- Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																												
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5	731.31	34.52	46.00	-11.48	34.27	27.88	3.68	31.91	0.60 -- -- Peak																																																																																																																																																																													
6	904.94	34.44	46.00	-11.56	31.87	29.15	4.09	31.14	0.47 -- -- Peak																																																																																																																																																																													

Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
1	Bluetooth - LE for 500Kbps	100.00	-	-	10Hz

